Forensic Environmental Services, Inc.
113 John Robert Thomas Drive
The Commons at Lincoln Center
Exton, Pennsylvania 19341

Telephone: (610) 594-3940 Telecopier: (610) 594-3943

September 23, 2009

Kenneth Thiessen, Certified Engineering Geologist
Oregon Dept. of Environmental Quality
NW Region Cleanup Program
2020 SW 4th Ave, Ste, 400, Portland, OR 97201
(503) 229-6015

RE: Catch Basin Sediment Sampling Report
GS Roofing Products, 6350 NW Front Avenue
Portland, Oregon

Dear Mr. Thiessen:

Per the Stormwater Assessment Workplan (SWAWP) dated January 2009, the SWAWP Addendum and response dated April 2009, and final Oregon Dept. of Environmental Quality (DEQ) comments and approval dated May 21, 2009, Forensic Environmental Services, Inc. (FES), on behalf of CertainTeed Corporation (CertainTeed), has prepared this letter report summarizing recent catch basin sediment sampling activities conducted at the GS Roofing Products, 6350 NW Front Avenue, Portland, Oregon.

This sampling report, which was prepared and submitted within 30 days of receipt of the catch basin sampling laboratory data package, includes:

- A discussion of the sampling activities and any deviations from the sampling plan.
- Copies of field documentation (notes, photographs, etc.).
- Copies of the laboratory reports and chain-of-custody forms.
- Data summaries in paper and electronic format.
- A discussion of the compounds detected, any compounds detected above their respective SLV, and the magnitude of the exceedances.

Introduction

Following receipt of the DEQ SWAWP approval letter dated May 21, 2009, CertainTeed made preparations for the collection of the catch basin sediment samples. TestAmerica, Inc. of Portland (TestAmerica) was contracted as the field consultant in early June 2009

The relevant SWAWP documents were forwarded to TestAmerica, and field work was scheduled for early July 2009. Catch basin sampling locations and the associated analytical suite were finalized in the April 2009 SWAWP Addendum and the May 2009 DEQ approval letter. Catch basin sampling locations are depicted on Figure 1, and the analytical suite proposed for each sampling location is summarized in Table 1.

Sampling Methods and Documentation

TestAmerica mobilized to the site on July 8, 2009. Weather conditions that day were overcast and the temperature was approximately 65^{o}F. The last significant rainfall event in the area (i.e., more than 0.2 inches) had occurred more than two weeks earlier on June 19, 2009.

TestAmerica inspected each catch basin for the presence of sediment. Sediment was present at 6 of the 12 proposed sampling locations (see Table 1), but there was no sediment at 6 proposed sampling locations: SP1-1B (inadequate sediment volume present), CB1-8, CB1-10, CB1-11, CB1-14 & CB1-15, so these catch basins were not sampled. However, TestAmerica noted sediments (mainly wood shavings) present on the geofabric capture bag over catch basins CB1-8, CB1-10, CB1-11 & CB1-14, so supplemental samples were collected from these locations for general information purposes only.

There was standing water in catch basins SP2-A, CB1-4 & CB1-6, and the sediments in the filter bag were relatively moist. Other catch basin sediment samples were relatively dry. Pieces of shingle were noted in the sediments at catch basin CB1-1.

TestAmerica used a "scraper" (trowel) to sample catch basins CB1-4, CB1-5 & CB1-6 (inflow pipe); a dipper was used to sample SP2-A, and sampling gloves were used to collect samples from catch basins CB1-1, CB4-1, and the geofilter bag sediments. A copy of the TestAmerica field notes is provided at the end of the laboratory report (see Appendix A).

Based on available information, sampling methods generally followed the methodology identified in the City of Portland July 2003 document *Standard Operating Procedures Guidance for Sampling of Catch Basin Solids*. However, TestAmerica field sampling documentation was minimal. Following the sampling event, field sampling procedures were reviewed with TestAmerica to ensure that requisite field documentation will be completed during future SWAWP sampling events.

Table 1 lists all catch basins at the site (see Figure 1), the date of the last catch basin cleanout, whether or not the catch basin was proposed for sampling, and conditions on the day of sampling.

Analytical Suite

The analytical suite for each catch basin sediment sample is listed in Table 1. All catch basin sediment samples were analyzed for grain size via ASTM Method D-2216-80, total organic carbon (TOC) via EPA Method 9060, and target analyte list (TAL) metals via EPA Methods 6010/6020/7471A. All catch basin sediment samples except CB1-1 were also analyzed for total petroleum hydrocarbons-diesel range organics (TPH-DRO), TPH-gasoline range organics (TPH-GRH), and TPH-heavy oil range hydrocarbons (TPH-HORH) via Methods NWTPH-Dx & NWTPH-Gx, semi-volatile organic compounds (SVOCs) via EPA Method 8270C, and polyaromatic hydrocarbons (PAHs) and phthalates via EPA Method 8270M-SIM. Per the approved SWAWP, two selected catch basin samples (SP2-A and CB4-1) were also analyzed for polychlorinated biphenyl (PCB) Aroclors via EPA Method 8082 and organochlorine pesticides via EPA Method 8081A.

Supplemental "filter bag" catch basin samples were analyzed for grain size, TOC, and TAL metals. Copies of the laboratory analytical reports for all sediment samples are provided as Appendix A.

The selected analytical laboratory, TestAmerica, attempted to achieve the screening level values (SLVs) listed in the 2008 DEQ Guidance document to the extent practicable. TestAmerica was also requested to perform a cleanup procedure on sediment samples prior to analysis to better achieve the very low detection limits listed for some SLVs.

Deviations from the final SWAWP

The following deviations from the approved SWAWP were noted: 1) although the final DEQ approval letter requested that catch basin CB1-2 be sampled instead of catch basin CB1-1, the latter was sampled in error; 2) as previously discussed above, supplemental capture bag sediment samples were collected for general information purposes from four catch basin sampling locations where sediment was not present; and 3) supplemental analysis for TAL metals was conducted on the sample from catch basin CB4-1. There were no other deviations from the approved SWAWP.

Sampling Results and Discussion

Catch basin sediment sampling results are summarized in Table 2. PCBs were not detected in samples SP2-A & CB4-1.

No organochlorine pesticides were detected in sample SP2-A; however, DDT was detected in sample CB4-1 at a concentration of 2.28 milligrams per kilogram (mg/kg), and associated breakdown products DDD and DDE, were also present at concentrations well above the applicable SLV of 0.00033 mg/kg. There has been no known historical use or storage of DDT at the GS Roofing Site. Further, sample CB4-1 was collected from Drainage Basin 004 where industrial activities are limited to employee parking, so this sample essentially serves as a "background" location. Moreover, catch basin CB4-1 is located in the northwestern portion of the site close to the adjacent ARKEMA property, where there is an ongoing DDT clean-up in progress. Therefore, the presence of DDT in the CB4-1 sediment sample is likely associated with a source on the adjacent property.

There were limited detections of SVOCs, phthalates, and PAHs in catch basin sediment samples CB1-1, CB1-4, CB1-5, CB1-6, SP2-A & CB4-1; however, all detections were below published SLVs except as noted below (see Table 2). Two PAHs exceeded their respective SLVs in the CB4-1 sample: benzo(g,h,i)perylene and indeno (1,2,3-c,d)pyrene, detected at concentrations of 1.03 mg/kg (SLV 0.3 mg/kg) and 0.721 mg/kg (SLV 0.1 mg/kg), respectively. The presence of relatively low concentrations of PAHs is often associated with run-off from asphalt surfaces. As discussed above, the only activity associated with Drainage Basin 004 is employee parking, so the presence of these two PAHs in sediment sample CB4-1 is attributed to sediment derived from the asphalt parking surface.

Two phthalates were detected above their respective SLVs in the catch basin samples: di-n-butylphthalate (sample CB1-6; concentration 0.216 mg/kg; SLV 0.60 mg/kg) and bis(2-ethyl-hexyl)phthalate (all six samples; maximum concentration 20.6 mg/kg in CB4-1; SLV 0.330 mg/kg). Phthalates are often associated with plastic packaging, which is used at the GS Roofing Site, and these chemicals may also be present in field sampling equipment and gloves, but finding the highest concentration at a "background" location (CB4-1) is not readily explained. Phthalates were not detected in the equipment blank sample (EB), but the detection limit (9.71 mg/kg) for the blank sample was higher than most of the detected phthalate concentrations.

TPH-GRH was not detected in any of the catch basin sediment samples. TPH-DRO was detected in five of the six samples (maximum concentration 15,000 mg/kg; CB1-5), and TPH-HORH was detected in all six samples (maximum concentration 16,400 mg/kg at CB1-5). For reference, TPH-DRO and TPH-HORH in "background"

sample CB4-1 were 1,480 mg/kg and 10,700 mg/kg, respectively. The presence of "heavy end" TPH in the sediments is attributed to: 1) asphalt run-off; and/or 2) ongoing industrial activities (asphalt shingles).

Of the 13 TAL metals, 2 analytes (selenium and silver) were not detected in any catch basin sediment samples, and each of the remaining 11 analytes were detected in three to six sediment samples. Eight TAL metals exceeded their respective SLVs (arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc). Exceedances were generally less than one order of magnitude above the respective SLV. All eight metals exceeded their SLVs in sample CB1-4 and "background" sample CB4-1; only lead exceeded the SLV in sample SP2-A.

Copper and zinc are present in raw materials used at the GS Roofing Site, along with trace amounts of nickel and chromium, but their presence in sample CB4-1 is not readily explained. There are no known on-site sources for the arsenic, cadmium, lead, and mercury detected in the samples. Pending stormwater sampling will provide additional data needed to evaluate the significance of the presence of these metals in the catch basin sediments.

All catch basin samples were also analyzed for grain size. Results are presented in Table 3. Gravel and coarse sand predominated in samples CB1-1, CB1-6 & CB4-1; fine sand and silt predominated in samples CB1-4, CB1-5 & SP2-A. The percentage of clay-sized particles ranged from 0.6 % (CB1-1 & CB1-6) to 9.0 % (SP2-A).

At four locations in Drainage Basin 001 where no catch basin sediments were present (see Table 1 and Figure 1), supplemental sediment samples were collected from the geofilter capture bags covering each catch basin; i.e., these samples are representative of surface flow sediments, but not the materials actually entering the catch basins. The four samples analyzed for TAL metals, TOC, and grain size (see Table 4). Similar to the catch basin samples, selenium and silver were not detected in any filter bag sediment samples, and mercury also was not detected in the filter bag samples. Eight of the remaining ten TAL metals were detected at concentrations exceeding sediment SLVs (see Table 4); however, maximum and average concentrations in the filter bag samples (which were collected from the eastern product storage area in Drainage Basin 001) were lower than concentrations reported for the catch basin sediment samples (see Table 2).

In contrast to the catch basin samples, the most common grain size in the filter bag samples was medium sand (see Table 3). The percentage of clay-sized particles in the filter bag samples ranged from 2.3 % (Filter CB1-11) to 4.5 % (Filter CB1-8).

Data Quality Assurance and Quality Control (QA/QC)

Proposed Quality Assurance/Quality Control (QA/QC) measures included the collection of a field duplicate sample and an equipment blank; however, TestAmerica did not collect a field duplicate. Field sampling procedures were reviewed with TestAmerica to ensure that all QA/QC sampling is properly completed during future sampling events.

One catch basin sediment equipment blank sample was collected for analysis of SVOCs, metals, and TPH by pouring demonstrated analyte-free water over the non-disposable sampling device (trowel) following sampling at catch basin CB4-1, so the rinsate flowed directly into the laboratory cleaned sample containers. No analytes were detected in the equipment blank sample (see Table 2).

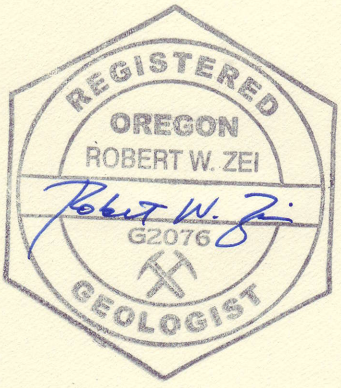
Data validation was performed in accordance with USEPA procedures and the site-specific Quality Assurance Project Plan (QAPP). The Quality Control Summary of each laboratory analytical data package was reviewed. Several nonconformances were noted including: 1) the presence of analytes in the associated Method Blank; 2) matrix spike (MS) and/or matrix spike duplicates (MSD) above the acceptance limit; 3) relative percent differences (RPDs) exceeding the acceptance limit; 4) surrogate recoveries outside the acceptance limits (or could not calculate due to matrix interference) and 5) raised reporting limits or sample dilutions due to elevated target analyte concentrations. However, the QA/QC results do not indicate any major qualifications or rejections of any of the reported data.

If you have any questions or comments on the above information, please feel free to contact me at (610) 594-3940.

Sincerely yours,

FORENSIC ENVIRONMENTAL SERVICES, INC.

Robert W. Zei, Ph.D., RG #G2076
Sr. Project Manager



cc: Anthony Ordway, CertainTeed
Matthew Prue, CertainTeed
Lauren Alterman, Esq., Saint-Gobain Corporation

TABLES

Table 1
Summary of Catch Basin Sampling Information
GS Roofing Products Site - Portland, Oregon

Drainage Basin	Catch Basin Designation	Date of last cleanout	Proposed for sampling?	If sampled, proposed parameters; if not sampled, represented by which catch basin?	Conditions on Sampling Date (July 8, 2009)
001	SP1-1A	-	No	**SP1-B**	-
001	SP1-1B	-	**Yes**	metals, SVOCs, TPH, PCBs, pest.	no sediment present
001	CB1-1	-	No	**CB1-2**	**sediment present - sampled**
001	CB1-2	-	**Yes**	metals	not sampled*
001	CB1-3	-	No	**CB1-2**	-
001	CB1-4	Aug-08	**Yes - Comp1**	metals, SVOCs, TPH	**sediment present - sampled (but not composited)**
001	CB1-5	Aug-08	**Yes - Comp1**	metals, SVOCs, TPH	**sediment present - sampled (but not composited)**
001	CB1-6	Aug-08	**Yes**	metals, SVOCs, TPH	**sediment present - sampled**
001	CB1-7	Aug-08	No	**CB1-6**	-
001	CB1-8	Aug-08	**Yes - Comp2**	metals	*no sediment present, capture bag sediment sampled*
001	CB1-9	Aug-08	No	**Comp2**	-
001	CB1-10	Aug-08	**Yes - Comp2**	metals	*no sediment present, capture bag sediment sampled*
001	CB1-11	Aug-08	**Yes - Comp2**	metals	*no sediment present, capture bag sediment sampled*
001	CB1-12	Aug-08	No	**Comp2**	-
001	CB1-13	Aug-08	No	**Comp2**	-
001	CB1-14	Aug-08	**Yes - Comp2**	metals	*no sediment present, capture bag sediment sampled*
001	CB1-15	Aug-08	**Yes - Comp2**	metals	no sediment present
001	perc drain	-	No	**SP1-B**	-
002	SP2-A	new	**Yes**	metals, SVOCs, TPH, PCBs, pest.	**sediment present - sampled**
003	none	-	No	**SP2-A**	-
004	CB4-1	-	**Yes**	SVOCs, TPH, PCBs, pest.	**sediment present - sampled (also analyzed for metals)**
004	CB4-2	-	No	**CB4-1**	-
005	none	-	No	**-**	-

* CB1-1 was mistakely substituted in the field for CB1-2

Comp = composite sample, metals = target analyte list (TAL) metals, VOCs = volatile organic compounds, SVOCs = semi-volatile organic compounds, polycyclic aromatic hydrocarbons (PAHs), and phthalates, TPH = diesel, gasoline, and heavy oil total petroleum hydrocarbons, PCBs = polychlorinated biphenyl Aroclors; and pest. = organochlorine pesticides. Note: all samples analyzed for total organic carbon (TOC) and grain size.

Table 2
Catch Basin Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)	Lab MDL (mg/kg)	Lab MRL (mg/kg)	SP2-A (mg/kg)	CB4-1 (mg/kg)
Polychlorinated biphenyls (PCB) Aroclors via EPA Method 8082					
Aroclor 1016	0.530	0.0167	0.0333	<0.259	<0.196
Aroclor 1221	--	0.0333	0.0670	<0.521	<0.394
Aroclor 1232	--	0.0167	0.0333	<0.259	<0.196
Aroclor 1242	--	0.0167	0.0333	<0.259	<0.196
Aroclor 1248	1.500	0.0167	0.0333	<0.259	<0.196
Aroclor 1254	0.300	0.0167	0.0333	<0.259	<0.196
Aroclor 1260	0.200	0.0167	0.0333	<0.259	<0.196
Organochlorine Pesticides via EPA Method 8081A					
Aldrin	0.040	0.00330	0.00670	<0.104	<0.0789
α - BHC	--	0.00330	0.00670	<0.104	<0.0789
β - BHC	--	0.00330	0.00670	<0.104	<0.0789
γ - BHC (Lindane)	0.00499	0.00330	0.00670	<0.104	<0.0789
δ - BHC	--	0.00330	0.00670	<0.104	<0.0789
Chlordane	0.370	0.0750	0.1500	<2.33	<1.77
DDD	0.00033	0.00330	0.00670	<0.104	**0.0883**
DDE	0.00033	0.00330	0.00670	<0.104	**0.372**
DDT	0.00033	0.00330	0.00670	<0.261	**2.28**
DDT - total (DDE+DDD+DDT)	0.00033	0.00330	0.00670	<0.466	**2.7403**
Dieldrin	0.0081	0.00330	0.00670	<0.104	<0.0789
Endosulfan alpha-	--	0.00330	0.00670	<0.104	<0.0789
Endosulfan beta-	--	0.00330	0.00670	<0.104	<0.0789
Endosulfan sulfate	--	0.00330	0.00670	<0.104	<0.0789
Endrin	0.207	0.00330	0.00670	<0.104	<0.0789
Endrin aldehyde	--	0.00330	0.00670	<0.104	<0.0789
Endrin ketone	--	0.00330	0.00670	<0.104	<0.0789
Heptachlor	0.00001	0.00330	0.00670	<0.104	<0.0789
Heptachlor epoxide	0.000016	0.00330	0.00670	<0.104	<0.0789
Methoxychlor	--	0.00330	0.00670	<0.104	<0.0789
Toxaphene	--	0.00330	0.00670	<3.11	<2.36

Table 2
Catch Basin Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)	Lab MDL (mg/kg)	Lab MRL (mg/kg)	CB1-1 (mg/kg)	CB1-4 (mg/kg)	CB1-5 (mg/kg)	CB1-6 (mg/kg)	SP2-A (mg/kg)	CB4-1 (mg/kg)	EB (µg/L)
Semi-Volatile Organic Compounds via EPA Method 8270C										
Halogenated Compounds										
1,2,4-Trichlorobenzene	9.200	0.500	1.000	<1.16	<18.3	<11.1	<4.78	<7.81	<23.5	<4.85
1,2-Dichlorobenzene	1.700	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
1,3-Dichlorobenzene	0.300	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
1,4-Dichlorobenzene	0.300	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
2-Chloronaphthalene	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
3,3'-Dichlorobenzidine	--	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
4-Bromophenyl-phenyl ether	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
4-Chloroaniline	--	0.165	2.000	<2.33	<36.5	<22.2	<9.55	<15.6	<47.0	<19.4
4-Chlorophenyl-phenyl ether	--	0.100	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Bis-(2-chloroethoxy) methane	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Bis-(2-chloroethyl) ether	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Hexachlorobenzene	0.019	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Hexachlorobutadiene	0.600	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
Hexachlorocyclopentadiene	0.400	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
Hexachloroethane	--	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
Oxygen-Containing Compounds										
Benzoic Acid	--	0.500	1.000	<1.16	<11.1	<11.1	<4.78	**11.1**	<23.5	<48.5
Benzyl Alcohol	--	1.000	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
Dibenzofuran	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Isophorone	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85

Table 2
Catch Basin Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)	Lab MDL (mg/kg)	Lab MRL (mg/kg)	CB1-1 (mg/kg)	CB1-4 (mg/kg)	CB1-5 (mg/kg)	CB1-6 (mg/kg)	SP2-A (mg/kg)	CB4-1 (mg/kg)	EB (µg/L)
Semi-Volatile Organic Compounds via EPA Method 8270C (cont.)										
Organonitrogen Compounds										
2,4-Dinitrotoluene	--	0.500	0.500	<0.582	<9.13	<5.56	<2.39	<3.90	<11.8	<4.85
2,6-Dinitrotoluene	--	0.500	0.500	<0.582	<9.13	<5.56	<2.39	<3.90	<11.8	<4.85
2-Nitroaniline	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
3-Nitroaniline	--	0.500	1.000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
4-Nitroaniline	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<9.71
Nitrobenzene	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
N-Nitroso-di-n-propylamine	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<9.71
N-Nitrosodiphenylamine	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
2,4,5-Trichlorophenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
2,4,6-Trichlorophenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
2,4-Dichlorophenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
2,4-Dimethylphenol	--	0.500	1000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
2,4-Dinitrophenol	--	2.000	2.000	<2.33	<36.5	<22.2	<9.55	<15.6	<47.0	<24.3
2-Chlorophenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Phenols and Substituted Phenols										
2-Methylphenol (o-Cresol)	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<9.71
3,4-Methylphenol	--	--	--	<0.384	<6.03	<1.58	<1.58	**14.0**	<7.76	<4.85
2-Nitrophenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<24.3
4-Chloro-3-methylphenol	--	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
4-Methylphenol (p-Cresol)	--	0.070	0.330	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	0.500	1000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
4,6-Dinitro-2-methylphenol	--	0.500	1000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<4.85
Pentachlorophenol	0.250	0.500	1000	<1.16	<11.1	<11.1	<4.78	<7.81	<23.5	<9.71
Phenol	0.050	0.070	0.330	<0.384	<6.03	<1.58	<1.58	<2.58	<7.76	<4.85
Polycyclic Aromatic Hydrocarbons (PAHs) - (and see 8270C-SIM analysis next page)										
2-Methylnaphthalene	0.200	0.070	0.330	<0.384	<6.03	<3.67	<1.58	<2.58	<7.76	<4.85

Table 2
Catch Basin Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)	Lab MDL (mg/kg)	Lab MRL (mg/kg)	CB1-1 (mg/kg)	CB1-4 (mg/kg)	CB1-5 (mg/kg)	CB1-6 (mg/kg)	SP2-A (mg/kg)	CB4-1 (mg/kg)	EB (µg/L)
Polycyclic Aromatic Hydrocarbons (PAHs) & Phthalates via EPA Method 8270M-SIM										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	0.300	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	<0.157	<4.85
Acenaphthylene	0.200	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	<0.157	<4.85
Anthracene	0.845	0.00330	0.0134	<0.0158	<0.122	<0.233	<0.0794	<0.104	<0.157	<4.85
Benzo(a)anthracene	1.050	0.00330	0.0134	<0.0158	<0.122	<0.186	<0.0794	<0.104	**0.578**	<4.85
Benzo(a)pyrene	1.450	0.00330	0.0134	<0.0158	<0.122	**0.0990**	<0.0794	<0.104	**0.819**	<4.85
Benzo(b)fluoranthene	--	0.00330	0.0134	<0.0158	**0.137**	**0.182**	<0.0794	<0.104	**0.820**	<4.85
Benzo(g,h,i)perylene	0.300	0.00330	0.0134	<0.0158	<0.122	**0.123**	<0.0794	<0.104	**1.03**	<4.85
Benzo(k)fluoranthene	13.00	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	**0.677**	<4.85
Chrysene	1.290	0.00330	0.0134	<0.0158	**0.402**	**1.22**	**0.149**	**0.165**	**0.885**	<4.85
Dibenzo(a,h)anthracene	1.300	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	**0.278**	<4.85
Fluoranthene	2.230	0.00330	0.0134	<0.0158	**0.393**	**0.411**	<0.0794	**0.246**	**0.903**	<4.85
Fluorene	0.536	0.00330	0.0134	<0.0158	<0.122	<0.140	<0.0794	<0.104	<0.157	<4.85
Indeno(1,2,3-cd)pyrene	0.100	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	**0.721**	<4.85
Naphthalene	0.561	0.00330	0.0134	<0.0158	<0.122	<0.0932	<0.0794	<0.104	<0.157	<4.85
Phenanthrene	1.170	0.00330	0.0134	<0.0158	**0.420**	<0.279	<0.0794	**0.236**	**0.476**	<4.85
Pyrene	1.520	0.00330	0.0134	<0.0158	**0.263**	**0.498**	<0.0794	**0.179**	**0.809**	<4.85
Phthalates										
Dimethylphthalate	--	0.0134	0.0268	<0.0633	<6.12	<1.86	<0.159	<1.04	<1.57	<4.85
Diethylphthalate	0.600	0.0134	0.0268	<0.0633	<6.12	<1.86	<0.159	<1.04	<1.57	<4.85
Di-n-butylphthalate	0.060	0.0134	0.0268	<0.0633	<6.12	<1.86	**0.216**	<1.04	<1.57	<4.85
Butylbenzylphthalate	--	0.0134	0.0268	<0.0633	<6.12	<1.86	<0.159	<1.04	<1.57	<4.85
bis(2-Ethylhexyl)phthalate	0.330	0.0134	0.0268	**0.104**	**19.0**	**6.72**	**0.299**	**3.56**	**20.6**	<9.71
Di-n-octylphthalate	--	0.0134	0.0268	<0.0633	<6.12	<1.86	<1.59	<1.04	<6.29	<4.85

Table 2
Catch Basin Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)	Lab MDL (mg/kg)	Lab MRL (mg/kg)	CB1-1 (mg/kg)	CB1-4 (mg/kg)	CB1-5 (mg/kg)	CB1-6 (mg/kg)	SP2-A (mg/kg)	CB4-1 (mg/kg)	EB (mg/L)
Total Petroleum Hydrocarbons (TPH) via NWTPH-Dx (diesel-range) & NWTPH-Gx (gasoline-range)										
TPH-Diesel	--	1.410	12.50	**109**	**1,710**	**15,000**	**578**	<486	**1,480**	<0.236
TPH-Gasoline	--	0.540	4.000	<4.56	<7.24	<5.26	<4.56	<30.9	<4.67	-
TPH Heavy Oil	--	2.800	25.00	**390**	**4,650**	**16,400**	**905**	**1,230**	**10,700**	<0.472
Total Organic Carbon (TOC) via EPA Method 9060										
Total Organic Carbon	--	0.010	0.050	**2,680**	**60,700**	**55,500**	**29,800**	**232,000**	**81,700**	-
Total Analyte List (TAL) Metals via EPA Method 6010/6020/7471A										
Aluminum	--	0.455	5.000	**4,430**	**4,980**	**7,170**	**2,540**	**2,740**	**8,050**	<0.100
Antimony	64.00	0.0700	0.500	<0.574	**5.48**	**3.63**	**5.36**	<3.76	**2.8**	<0.001
Arsenic	7.000	0.0100	0.500	**1.15**	**7.39**	**5.65**	**33.3**	<3.76	**30.1**	<0.001
Cadmium	1.000	0.0500	0.500	<0.574	**5.09**	**1.77**	**0.681**	<3.76	**2.85**	<0.0005
Chromium, total	111.0	0.0800	0.500	**210**	**847**	**1,170**	**234**	**68.2**	**165**	<0.002
Copper	149.0	0.190	2.000	**53.0**	**371**	**415**	**204**	**102**	**192**	<0.002
Lead	17.00	0.0800	0.500	**5.98**	**59.9**	**41.8**	**62.4**	**26.0**	**296**	<0.001
Manganese	1100	0.460	1.000	**198**	**496**	**651**	**498**	**158**	**775**	<0.002
Mercury	0.070	0.0020	0.100	<0.111	**1.14**	**0.495**	<0.0891	<0.685	**0.294**	<0.0002
Nickel	48.60	0.120	1.000	**152**	**359**	**431**	**96.2**	**27.1**	**107**	<0.001
Selenium	2.000	0.0200	0.500	<1.15	<9.03	<6.83	<0.592	<3.76	<5.92	<0.0005
Silver	5.000	0.0200	0.500	<0.574	<0.903	<0.683	<0.592	<3.76	<0.592	<0.001
Zinc	459.0	0.650	2.000	**696**	**2,620**	**2,250**	**346**	**311**	**2,900**	<0.005

Detected analytes in bold. All samples collected on July 8, 2009.

SLV = screening level value (see Table 3-1 Portland Harbor Joint Source Control Strategy (JSCS) dated December 2005; "--" = value not available; mg/kg = milligrams per kilogram; MDL = laboratory method detection limit; MRL = laboratory method reporting limit; EB = equipment blank; µg/L = micrograms per liter; mg/L = milligrams per liter; CB = catch basin; NA = not analyzed.

Table 3
Summary of Soil Grain Size Data
GS Roofing Products Site - Portland, Oregon

	catch basin sample	CB1-1	CB1-4	CB1-5	CB1-6	SP2-A	CB4-1	FILTER CB1-8	FILTER CB1-10	FILTER CB1-11	FILTER CB1-14
	moisture %	*15.4*	*45.7*	*28.2*	*16.4*	*87.2*	*15.5*	*66.0*	*69.3*	*70.2*	*49.1*
size (mm)	particle class	% Retained									
	gravel	32.6	5.5	1.9	62.8	8.2	32.1	7.6	9.9	6.6	10.3
2.00											
	coarse sand	33.4	8.8	11.1	15.8	11.7	25.2	14.3	12.4	17.5	13.0
0.500											
	medium sand	30.2	19.9	19.5	14.7	20.3	21.7	39.6	30.5	36.3	35.7
0.250											
	fine sand	1.9	33.6	26.7	3.7	17.0	7.8	21.3	17.4	21.3	21.6
0.062											
	silt	1.4	29.6	36.6	2.6	33.9	11.3	12.6	26.0	16.0	16.7
0.003											
	clay	0.6	2.6	4.2	0.6	9.0	1.9	4.5	4.0	2.3	2.9
		100.1	100.0	100.0	100.2	100.0	99.9	99.8	100.1	100.0	100.1

All samples collected on July 8, 2009.
mm = diameter in millimeters
Soil samples anlyzed via ASTM D2216-80.
Note: "filter CB" samples collected from protective geofilter bag covering CB; inadequate sediment present in catch basin for sampling.

Table 4
Catch Basin "Filter Bag" Sampling - Sampling Results
GS Roofing Products Site - Portland, Oregon

	SLV (mg/kg)*	Lab MDL (mg/kg)	Lab MRL (mg/kg)	filter* CB1-8 (mg/kg)	filter* CB1-10 (mg/kg)	filter* CB1-11 (mg/kg)	filter* CB1-14 (mg/kg)	filter* average (mg/kg)	EB (mg/L)
Total Organic Carbon (TOC) via EPA Method 9060									
Total Organic Carbon	--	0.010	0.050	**117,000**	**228,000**	**226,000**	**87,000**	**164,500**	-
Total Analyte List (TAL) Metals via EPA Method 6010/6020/7471A									
Aluminum	--	0.455	5.000	**5,340**	**4,410**	**5,410**	**5,090**	**5,063**	<0.100
Antimony	*64.00*	0.0700	0.500	**5.31**	<1.57	<2.48	**1.98**	**3.65**	<0.001
Arsenic	*7.000*	0.0100	0.500	**7.81**	**4.04**	**4.98**	**3.36**	**5.05**	<0.001
Cadmium	*1.000*	0.0500	0.500	<1.44	<1.57	<2.48	**1.06**	**1.060**	<0.0005
Chromium, total	*111.0*	0.0800	0.500	**308**	**168**	**136**	**148**	**190**	<0.002
Copper	*149.0*	0.190	2.000	**333**	**228**	**233**	**260**	**264**	<0.002
Lead	*17.00*	0.0800	0.500	**46.3**	**57.8**	**44.5**	**38.1**	**46.7**	<0.001
Manganese	*1100*	0.460	1.000	**391**	**213**	**298**	**211**	**278**	<0.002
Mercury	*0.070*	0.0020	0.100	<0.246	<0.284	<0.389	<0.178	all ND	<0.0002
Nickel	*48.60*	0.120	1.000	**145**	**72.4**	**76.1**	**83.1**	**94.2**	<0.001
Selenium	*2.000*	0.0200	0.500	<1.44	<1.57	<2.48	<0.950	all ND	<0.0005
Silver	*5.000*	0.0200	0.500	<1.44	<1.57	<2.48	<0.950	all ND	<0.001
Zinc	*459.0*	0.650	2.000	**464**	**522**	**467**	**270**	**431**	<0.005

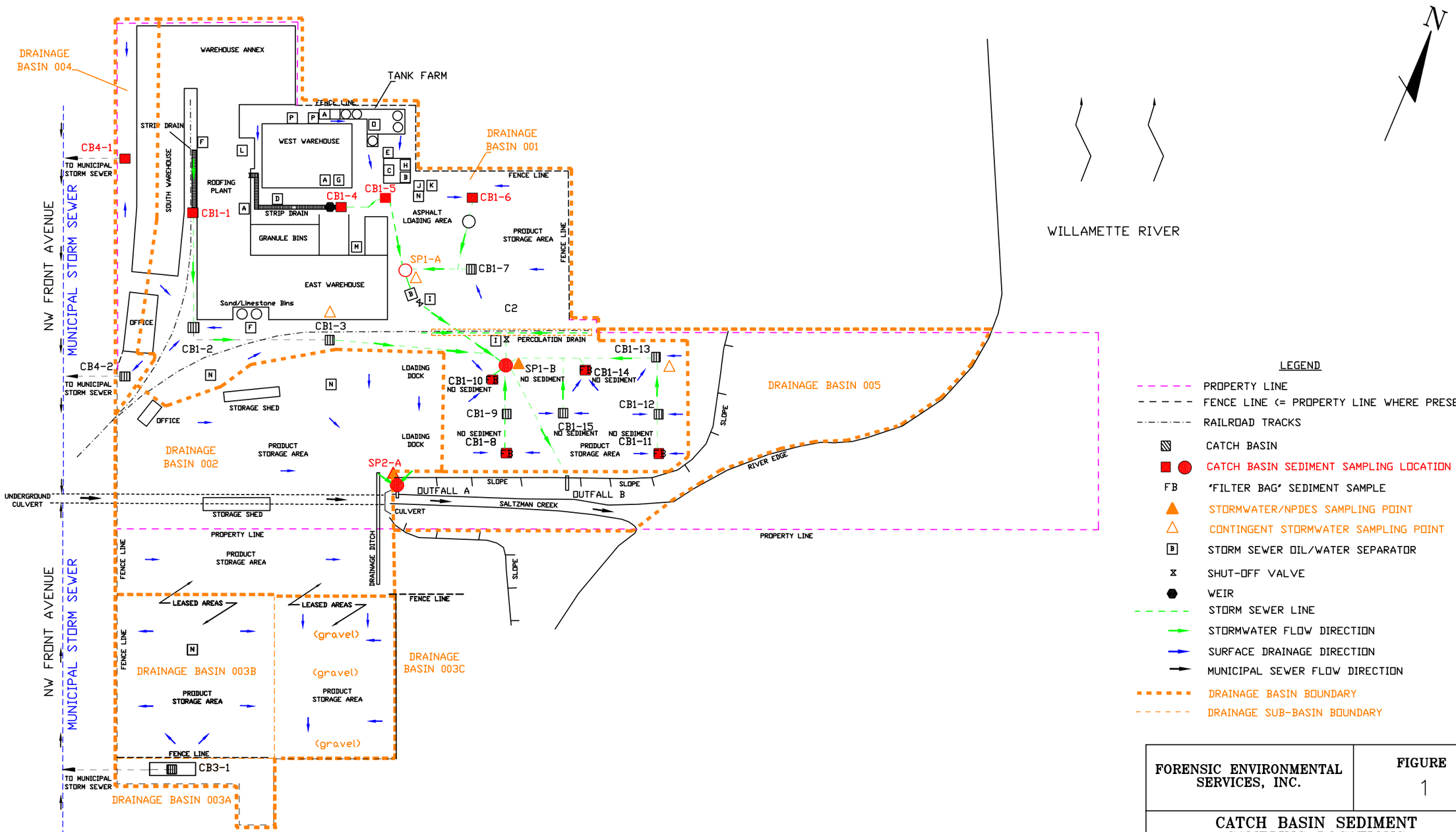
* "filter CB" samples collected from protective capture bag filter on CB; inadequate sediment present in catch basin for sampling; SLVs included for comparison purposes, but not directly applicable (sample does not represent actual sediment entering storm sewer system)

All samples collected on July 8, 2009.

Detected analytes in bold.

SLV = screening level value (see Table 3-1 Portland Harbor Joint Source Control Strategy (JSCS) dated December 2005; "--" = value not available; mg/kg = milligrams per kilogram; MDL = laboratory method detection limit; MRL = laboratory method reporting limit; EB = equipment blank; mg/L = milligrams per liter; CB = catch basin; ND = not detected above the MDL.

FIGURES



FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1
CATCH BASIN SEDIMENT SAMPLING LOCATIONS GS ROOFING PRODUCTS SITE PORTLAND, OREGON	
0 120 SCALE IN FEET	DRAWN BY: APPROVED BY:

f1SAMP.DWG

APPENDIX A

LABORATORY
DATA REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

Amended Report

August 24, 2009

Tony Ordway
CertainTeed Roofing Products Group
6350 NW Front Ave
Portland, OR 97210

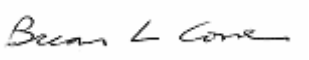
RE: Stormwater Assessment

Enclosed are the results of analyses for samples received by the laboratory on 07/08/09 15:15. The following list is a summary of the Work Orders contained in this report, generated on 08/24/09 15:41.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PSG0275	Stormwater Assessment	Stormwater/Sediment Project

TestAmerica Portland



Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB4-1	PSG0275-01	Soil	07/07/09 15:00	07/08/09 15:15
CB1-1	PSG0275-02	Soil	07/07/09 14:35	07/08/09 15:15
SP2-A	PSG0275-03	Soil	07/07/09 15:45	07/08/09 15:15
CB1-8	PSG0275-04	Soil	07/07/09 15:55	07/08/09 15:15
CB1-11	PSG0275-05	Soil	07/07/09 16:05	07/08/09 15:15
CB1-14	PSG0275-06	Soil	07/07/09 16:10	07/08/09 15:15
CB1-10	PSG0275-07	Soil	07/07/09 16:20	07/08/09 15:15
CB1-6	PSG0275-08	Soil	07/07/09 16:35	07/08/09 15:15
CB1-5	PSG0275-09	Soil	07/07/09 16:50	07/08/09 15:15
CB1-4	PSG0275-10	Soil	07/07/09 17:00	07/08/09 15:15
Equipment Blank	PSG0275-11	Water	07/08/09 15:00	07/08/09 15:15

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

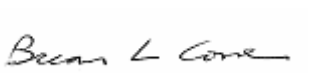
CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Gasoline Hydrocarbons per NW TPH-Gx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**				**Sampled: 07/07/09 15:00**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	4.67	mg/kg dry	1x	9070300	07/10/09 11:00	07/10/09 16:26	
Surrogate(s): a,a,a-TFT (FID)				*103%*		*50 - 150 %*				"
PSG0275-03 (SP2-A)			**Soil**				**Sampled: 07/07/09 15:45**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	30.9	mg/kg dry	1x	9070300	07/10/09 11:00	07/10/09 18:45	
Surrogate(s): a,a,a-TFT (FID)				*64.6%*		*50 - 150 %*				"
PSG0275-08 (CB1-6)			**Soil**				**Sampled: 07/07/09 16:35**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	4.56	mg/kg dry	1x	9070300	07/10/09 11:00	07/10/09 21:02	
Surrogate(s): a,a,a-TFT (FID)				*96.5%*		*50 - 150 %*				"
PSG0275-09 (CB1-5)			**Soil**				**Sampled: 07/07/09 16:50**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	5.26	mg/kg dry	1x	9070300	07/10/09 11:00	07/10/09 21:29	
Surrogate(s): a,a,a-TFT (FID)				*98.8%*		*50 - 150 %*				"
PSG0275-10 (CB1-4)			**Soil**				**Sampled: 07/07/09 17:00**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	7.24	mg/kg dry	1x	9070300	07/10/09 11:00	07/10/09 21:57	
Surrogate(s): a,a,a-TFT (FID)				*73.3%*		*50 - 150 %*				"

TestAmerica Portland



Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

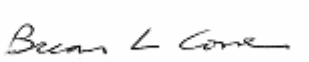
CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed		Notes
PSG0275-01 (CB4-1)			**Soil**				**Sampled: 07/07/09 15:00**				
Diesel Range Organics	NWTPH-Dx	**1480**	-----	1470	mg/kg dry	20x	9070434	07/14/09 16:40	07/15/09 10:44		**Q6**
Heavy Oil Range Hydrocarbons	"	**10700**	-----	2950	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*76.6%*		*50 - 150 %*				"	***Z3***
PSG0275-03 (SP2-A)			**Soil**				**Sampled: 07/07/09 15:45**				
Diesel Range Organics	NWTPH-Dx	ND	-----	486	mg/kg dry	5x	9070434	07/14/09 16:40	07/15/09 11:19		**RL7**
Heavy Oil Range Hydrocarbons	"	**1230**	-----	972	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*56.5%*		*50 - 150 %*				"	
PSG0275-08 (CB1-6)			**Soil**				**Sampled: 07/07/09 16:35**				
Diesel Range Organics	NWTPH-Dx	**578**	-----	14.8	mg/kg dry	1x	9070467	07/14/09 21:00	07/15/09 03:16		**Q6**
Heavy Oil Range Hydrocarbons	"	**905**	-----	29.6	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*92.3%*		*50 - 150 %*				"	
PSG0275-09 (CB1-5)			**Soil**				**Sampled: 07/07/09 16:50**				
Diesel Range Organics	NWTPH-Dx	**15000**	-----	348	mg/kg dry	20x	9070392	07/13/09 17:30	07/14/09 09:39		**A-01a**
Heavy Oil Range Hydrocarbons	"	**16400**	-----	696	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*101%*		*50 - 150 %*				"	***Z3***
PSG0275-10 (CB1-4)			**Soil**				**Sampled: 07/07/09 17:00**				
Diesel Range Organics	NWTPH-Dx	**1710**	-----	113	mg/kg dry	5x	9070392	07/13/09 17:30	07/14/09 09:58		**Q10**
Heavy Oil Range Hydrocarbons	"	**4650**	-----	225	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*26.3%*		*50 - 150 %*				"	***ZX***
PSG0275-11 (Equipment Blank)			**Water**				**Sampled: 07/08/09 15:00**				
Diesel Range Organics	NWTPH-Dx	ND	-----	0.236	mg/l	1x	9070351	07/13/09 18:30	07/14/09 04:46		
Heavy Oil Range Hydrocarbons	"	ND	-----	0.472	"	"	"	"	"		
Surrogate(s): 1-Chlorooctadecane				*80.3%*		*50 - 150 %*				"	

TestAmerica Portland



Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 200 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-11 (Equipment Blank)			**Water**				**Sampled: 07/08/09 15:00**			
Aluminum	EPA 200.7	ND	-----	0.100	mg/l	1x	9070328	07/10/09 15:39	07/13/09 13:48	
Antimony	EPA 200.8	ND	-----	0.00100	"	"	9070373	07/13/09 10:56	07/13/09 16:47	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.000500	"	"	"	"	"	
Chromium	"	ND	-----	0.00200	"	"	"	"	"	
Copper	"	ND	-----	0.00200	"	"	"	"	"	
Lead	"	ND	-----	0.00100	"	"	"	"	"	
Manganese	"	ND	-----	0.00200	"	"	"	"	"	
Nickel	"	ND	-----	0.00100	"	"	"	"	"	
Selenium	"	ND	-----	0.000500	"	"	"	"	"	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.00500	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**			**Sampled: 07/07/09 15:00**				
Aluminum	EPA 6010B	**8050**	-----	59.2	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 18:19	
Antimony	EPA 6020	**2.80**	-----	0.592	"	1x	9070363	07/13/09 10:30	07/14/09 02:30	
Arsenic	"	**30.1**	-----	0.592	"	"	"	"	"	
Cadmium	"	**2.85**	-----	0.592	"	"	"	"	"	
Chromium	"	**165**	-----	0.592	"	"	"	"	"	
Copper	"	**192**	-----	2.37	"	"	"	"	"	
Lead	"	**296**	-----	5.92	"	10x	"	"	07/14/09 14:57	
Manganese	"	**775**	-----	11.8	"	"	"	"	"	
Nickel	"	**107**	-----	1.18	"	1x	"	"	07/14/09 02:30	
Selenium	"	ND	-----	5.92	"	10x	"	"	07/14/09 14:57	**RL1**
Silver	"	ND	-----	0.592	"	1x	"	"	07/14/09 02:30	
Zinc	"	**2900**	-----	23.7	"	10x	"	"	07/14/09 14:57	
PSG0275-02 (CB1-1)			**Soil**			**Sampled: 07/07/09 14:35**				
Aluminum	EPA 6010B	**4430**	-----	58.5	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 18:25	
Antimony	EPA 6020	ND	-----	0.574	"	1x	9070363	07/13/09 10:30	07/14/09 02:58	
Arsenic	"	**1.15**	-----	0.574	"	"	"	"	"	
Cadmium	"	ND	-----	0.574	"	"	"	"	"	
Chromium	"	**210**	-----	0.574	"	"	"	"	"	
Copper	"	**53.0**	-----	2.30	"	"	"	"	"	
Lead	"	**5.98**	-----	0.574	"	"	"	"	"	
Manganese	"	**198**	-----	1.15	"	"	"	"	"	
Nickel	"	**152**	-----	1.15	"	"	"	"	"	
Selenium	"	ND	-----	1.15	"	2x	"	"	07/14/09 15:24	**RL1**
Silver	"	ND	-----	0.574	"	1x	"	"	07/14/09 02:58	
Zinc	"	**696**	-----	4.59	"	2x	"	"	07/14/09 15:24	
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				
Aluminum	EPA 6010B	**2740**	-----	391	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 18:56	
Antimony	EPA 6020	ND	-----	3.76	"	1x	9070363	07/13/09 10:30	07/14/09 03:06	
Arsenic	"	ND	-----	3.76	"	"	"	"	"	
Cadmium	"	ND	-----	3.76	"	"	"	"	"	
Chromium	"	**68.2**	-----	3.76	"	"	"	"	"	
Copper	"	**102**	-----	15.0	"	"	"	"	"	
Lead	"	**26.0**	-----	3.76	"	"	"	"	"	
Manganese	"	**158**	-----	7.51	"	"	"	"	"	

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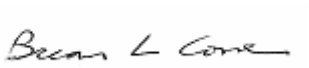

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-03 (SP2-A)			**Soil**				**Sampled: 07/07/09 15:45**			
Nickel	"	**27.1**	-----	7.51	"	"	"	"	"	
Selenium	"	ND	-----	3.76	"	"	"	"	07/14/09 15:31	
Silver	"	ND	-----	3.76	"	"	"	"	07/14/09 03:06	
Zinc	"	**311**	-----	15.0	"	"	"	"	07/14/09 15:31	
PSG0275-04 (CB1-8)			**Soil**				**Sampled: 07/07/09 15:55**			
Aluminum	EPA 6010B	**5340**	-----	144	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:03	
Antimony	EPA 6020	**5.31**	-----	1.44	"	1x	9070363	07/13/09 10:30	07/14/09 03:13	
Arsenic	"	**7.81**	-----	1.44	"	"	"	"	"	
Cadmium	"	ND	-----	1.44	"	"	"	"	"	
Chromium	"	**308**	-----	1.44	"	"	"	"	"	
Copper	"	**333**	-----	5.77	"	"	"	"	"	
Lead	"	**46.3**	-----	1.44	"	"	"	"	"	
Manganese	"	**391**	-----	2.88	"	"	"	"	"	
Nickel	"	**145**	-----	2.88	"	"	"	"	"	
Selenium	"	ND	-----	1.44	"	"	"	"	07/14/09 15:41	
Silver	"	ND	-----	1.44	"	"	"	"	07/14/09 03:13	
Zinc	"	**464**	-----	5.77	"	"	"	"	07/14/09 15:41	
PSG0275-05 (CB1-11)			**Soil**				**Sampled: 07/07/09 16:05**			
Aluminum	EPA 6010B	**5410**	-----	250	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:09	
Antimony	EPA 6020	ND	-----	2.48	"	1x	9070363	07/13/09 10:30	07/14/09 03:21	
Arsenic	"	**4.98**	-----	2.48	"	"	"	"	"	
Cadmium	"	ND	-----	2.48	"	"	"	"	"	
Chromium	"	**136**	-----	2.48	"	"	"	"	"	
Copper	"	**233**	-----	9.90	"	"	"	"	"	
Lead	"	**44.5**	-----	2.48	"	"	"	"	"	
Manganese	"	**298**	-----	4.95	"	"	"	"	"	
Nickel	"	**76.1**	-----	4.95	"	"	"	"	"	
Selenium	"	ND	-----	2.48	"	"	"	"	07/14/09 15:48	
Silver	"	ND	-----	2.48	"	"	"	"	07/14/09 03:21	
Zinc	"	**467**	-----	9.90	"	"	"	"	07/14/09 15:48	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-06 (CB1-14)			**Soil**				**Sampled: 07/07/09 16:10**			
Aluminum	EPA 6010B	**5090**	-----	96.9	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:15	
Antimony	EPA 6020	**1.98**	-----	0.950	"	1x	9070363	07/13/09 10:30	07/14/09 03:43	
Arsenic	"	**3.36**	-----	0.950	"	"	"	"	"	
Cadmium	"	**1.06**	-----	0.950	"	"	"	"	"	
Chromium	"	**148**	-----	0.950	"	"	"	"	"	
Copper	"	**260**	-----	3.80	"	"	"	"	"	
Lead	"	**38.1**	-----	0.950	"	"	"	"	"	
Manganese	"	**211**	-----	1.90	"	"	"	"	"	
Nickel	"	**83.1**	-----	1.90	"	"	"	"	"	
Selenium	"	ND	-----	0.950	"	"	"	"	07/14/09 16:09	
Silver	"	ND	-----	0.950	"	"	"	"	07/14/09 03:43	
Zinc	"	**270**	-----	3.80	"	"	"	"	07/14/09 16:09	
PSG0275-07 (CB1-10)			**Soil**				**Sampled: 07/07/09 16:20**			
Aluminum	EPA 6010B	**4410**	-----	163	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:22	
Antimony	EPA 6020	ND	-----	1.57	"	1x	9070363	07/13/09 10:30	07/14/09 03:51	
Arsenic	"	**4.04**	-----	1.57	"	"	"	"	"	
Cadmium	"	ND	-----	1.57	"	"	"	"	"	
Chromium	"	**168**	-----	1.57	"	"	"	"	"	
Copper	"	**228**	-----	6.26	"	"	"	"	"	
Lead	"	**57.8**	-----	1.57	"	"	"	"	"	
Manganese	"	**213**	-----	3.13	"	"	"	"	"	
Nickel	"	**72.4**	-----	3.13	"	"	"	"	"	
Selenium	"	ND	-----	1.57	"	"	"	"	07/14/09 16:15	
Silver	"	ND	-----	1.57	"	"	"	"	07/14/09 03:51	
Zinc	"	**522**	-----	6.26	"	"	"	"	07/14/09 16:15	
PSG0275-08 (CB1-6)			**Soil**				**Sampled: 07/07/09 16:35**			
Aluminum	EPA 6010B	**2540**	-----	57.0	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:28	
Antimony	EPA 6020	**5.36**	-----	0.592	"	1x	9070363	07/13/09 10:30	07/14/09 03:58	
Arsenic	"	**33.3**	-----	0.592	"	"	"	"	"	
Cadmium	"	**0.681**	-----	0.592	"	"	"	"	"	
Chromium	"	**234**	-----	0.592	"	"	"	"	"	
Copper	"	**204**	-----	2.37	"	"	"	"	"	
Lead	"	**62.4**	-----	0.592	"	"	"	"	"	
Manganese	"	**498**	-----	1.18	"	"	"	"	"	

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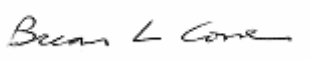

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-08 (CB1-6)			**Soil**				**Sampled: 07/07/09 16:35**			
Nickel	"	**96.2**	-----	1.18	"	"	"	"	"	
Selenium	"	ND	-----	0.592	"	"	"	"	07/14/09 16:22	
Silver	"	ND	-----	0.592	"	"	"	"	07/14/09 03:58	
Zinc	"	**346**	-----	2.37	"	"	"	"	07/14/09 16:22	
PSG0275-09 (CB1-5)			**Soil**				**Sampled: 07/07/09 16:50**			
Aluminum	EPA 6010B	**7170**	-----	67.0	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:34	
Antimony	EPA 6020	**3.63**	-----	0.683	"	1x	9070363	07/13/09 10:30	07/14/09 04:05	
Arsenic	"	**5.65**	-----	0.683	"	"	"	"	"	
Cadmium	"	**1.77**	-----	0.683	"	"	"	"	"	
Chromium	"	**1170**	-----	6.83	"	10x	"	"	07/14/09 16:29	
Copper	"	**415**	-----	2.73	"	1x	"	"	07/14/09 04:05	
Lead	"	**41.8**	-----	0.683	"	"	"	"	"	
Manganese	"	**651**	-----	1.37	"	"	"	"	"	
Nickel	"	**431**	-----	1.37	"	"	"	"	"	
Selenium	"	ND	-----	6.83	"	10x	"	"	07/14/09 16:29	**RL1**
Silver	"	ND	-----	0.683	"	1x	"	"	07/14/09 04:05	
Zinc	"	**2250**	-----	27.3	"	10x	"	"	07/14/09 16:29	
PSG0275-10 (CB1-4)			**Soil**				**Sampled: 07/07/09 17:00**			
Aluminum	EPA 6010B	**4980**	-----	89.4	mg/kg dry	10x	9070386	07/13/09 12:52	07/14/09 19:40	
Antimony	EPA 6020	**5.48**	-----	0.903	"	1x	9070363	07/13/09 10:30	07/14/09 04:12	
Arsenic	"	**7.39**	-----	0.903	"	"	"	"	"	
Cadmium	"	**5.09**	-----	0.903	"	"	"	"	"	
Chromium	"	**847**	-----	0.903	"	"	"	"	"	
Copper	"	**371**	-----	3.61	"	"	"	"	"	
Lead	"	**59.9**	-----	0.903	"	"	"	"	"	
Manganese	"	**496**	-----	1.81	"	"	"	"	"	
Nickel	"	**359**	-----	1.81	"	"	"	"	"	
Selenium	"	ND	-----	9.03	"	10x	"	"	07/14/09 16:36	**RL1**
Silver	"	ND	-----	0.903	"	1x	"	"	07/14/09 04:12	
Zinc	"	**2620**	-----	36.1	"	10x	"	"	07/14/09 16:36	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Mercury per EPA Method 7470A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-11 (Equipment Blank)			**Water**				**Sampled: 07/08/09 15:00**			
Mercury	EPA 7470A	ND	-----	0.000200	mg/l	1x	9070371	07/13/09 10:54	07/13/09 17:29	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Mercury per EPA Method 7471A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**			**Sampled: 07/07/09 15:00**				
Mercury	EPA 7471A	**0.294**	-----	0.111	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:15	
PSG0275-02 (CB1-1)			**Soil**			**Sampled: 07/07/09 14:35**				
Mercury	EPA 7471A	ND	-----	0.111	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:18	
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				
Mercury	EPA 7471A	ND	-----	0.685	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:20	
PSG0275-04 (CB1-8)			**Soil**			**Sampled: 07/07/09 15:55**				
Mercury	EPA 7471A	ND	-----	0.246	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:22	
PSG0275-05 (CB1-11)			**Soil**			**Sampled: 07/07/09 16:05**				
Mercury	EPA 7471A	ND	-----	0.389	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:25	
PSG0275-06 (CB1-14)			**Soil**			**Sampled: 07/07/09 16:10**				
Mercury	EPA 7471A	ND	-----	0.178	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:27	
PSG0275-07 (CB1-10)			**Soil**			**Sampled: 07/07/09 16:20**				
Mercury	EPA 7471A	ND	-----	0.284	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:29	
PSG0275-08 (CB1-6)			**Soil**			**Sampled: 07/07/09 16:35**				
Mercury	EPA 7471A	ND	-----	0.0891	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:31	
PSG0275-09 (CB1-5)			**Soil**			**Sampled: 07/07/09 16:50**				
Mercury	EPA 7471A	**0.495**	-----	0.120	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:34	
PSG0275-10 (CB1-4)			**Soil**			**Sampled: 07/07/09 17:00**				
Mercury	EPA 7471A	**1.14**	-----	0.154	mg/kg dry	1x	9070395	07/13/09 15:06	07/14/09 12:43	

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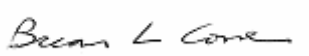

Brian Cone, Industrial Services Manager

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organochlorine Pesticides and PCBs per EPA Methods 8081A/8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)		**Soil**				**Sampled: 07/07/09 15:00**				**RL3**
Aldrin	8081A/8082	ND	-----	0.0789	mg/kg dry	10x	9070273	07/09/09 16:35	07/23/09 14:01	**RL1**
alpha-BHC	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
beta-BHC	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
delta-BHC	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
gamma-BHC (Lindane)	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
alpha-Chlordane	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Chlordane (tech)	"	ND	-----	1.77	"	"	"	"	"	**RL1**
gamma-Chlordane	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
4,4´-DDD	"	**0.0883**	-----	0.0789	"	"	"	"	"	
4,4´-DDE	"	**0.372**	-----	0.0789	"	"	"	"	"	
4,4´-DDT	"	**2.28**	-----	0.394	"	50x	"	"	07/23/09 05:19	
Dieldrin	"	ND	-----	0.0789	"	10x	"	"	07/23/09 14:01	**RL1**
Endosulfan I	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Endosulfan II	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Endosulfan sulfate	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Endrin	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Endrin aldehyde	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Endrin ketone	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Heptachlor	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Heptachlor epoxide	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Methoxychlor	"	ND	-----	0.0789	"	"	"	"	"	**RL1**
Toxaphene	"	ND	-----	2.36	"	"	"	"	"	**RL1**
Aroclor 1016	"	ND	-----	0.196	"	5x	"	"	07/24/09 18:46	
Aroclor 1221	"	ND	-----	0.394	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.196	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.196	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.196	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.196	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.196	"	"	"	"	"	

Surrogate(s):	*2,4,5,6-Tetrachloro-m-xylene*	*79.3%*	*36 - 140 %*	*07/23/09 14:01*
	Decachlorobiphenyl	*108%*	*16 - 149 %*	*07/24/09 18:46*

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organochlorine Pesticides and PCBs per EPA Methods 8081A/8082

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-03 (SP2-A)		**Soil**				**Sampled: 07/07/09 15:45**				
Aldrin	8081A/8082	ND	-----	0.104	mg/kg dry	2x	9070273	07/09/09 16:35	07/23/09 10:06	**RL1**
alpha-BHC	"	ND	-----	0.104	"	"	"	"	"	**RL1**
beta-BHC	"	ND	-----	0.104	"	"	"	"	"	**RL1**
delta-BHC	"	ND	-----	0.104	"	"	"	"	"	**RL1**
gamma-BHC (Lindane)	"	ND	-----	0.104	"	"	"	"	"	**RL1**
alpha-Chlordane	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Chlordane (tech)	"	ND	-----	2.33	"	"	"	"	"	**RL1**
gamma-Chlordane	"	ND	-----	0.104	"	"	"	"	"	**RL1**
4,4´-DDD	"	ND	-----	0.104	"	"	"	"	"	**RL1**
4,4´-DDE	"	ND	-----	0.104	"	"	"	"	"	**RL1**
4,4´-DDT	"	ND	-----	0.261	"	5x	"	"	07/23/09 21:50	**RL1**
Dieldrin	"	ND	-----	0.104	"	2x	"	"	07/23/09 10:06	**RL1**
Endosulfan I	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Endosulfan II	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Endosulfan sulfate	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Endrin	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Endrin aldehyde	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Endrin ketone	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Heptachlor	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Heptachlor epoxide	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Methoxychlor	"	ND	-----	0.104	"	"	"	"	"	**RL1**
Toxaphene	"	ND	-----	3.11	"	"	"	"	"	**RL1**
Aroclor 1016	"	ND	-----	0.259	"	1x	"	"	07/23/09 19:53	
Aroclor 1221	"	ND	-----	0.521	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.259	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.259	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.259	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.259	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.259	"	"	"	"	"	

Surrogate(s):	*2,4,5,6-Tetrachloro-m-xylene*	*39.9%*	*36 - 140 %*	*07/23/09 10:06*
	Decachlorobiphenyl	*43.4%*	*16 - 149 %*	*07/23/09 19:53*

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)		**Soil**				**Sampled: 07/07/09 15:00**				**RL3**
Acenaphthene	EPA 8270C	ND	-----	7.76	mg/kg dry	4x	9070380	07/13/09 18:00	07/15/09 00:53	
Acenaphthylene	"	ND	-----	7.76	"	"	"	"	"	
Anthracene	"	ND	-----	7.76	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	7.76	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	7.76	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	7.76	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	7.76	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	7.76	"	"	"	"	"	
Benzoic Acid	"	ND	-----	23.5	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	23.5	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	7.76	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	7.76	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	7.76	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	47.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	7.76	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	7.76	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	7.76	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	7.76	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	7.76	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	7.76	"	"	"	"	"	
Chrysene	"	ND	-----	7.76	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	23.5	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	7.76	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	7.76	"	"	"	"	"	
Dibenzofuran	"	ND	-----	7.76	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	23.5	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	23.5	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	23.5	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	23.5	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	7.76	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	7.76	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	23.5	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	7.76	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	23.5	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	47.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	11.8	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)		**Soil**				**Sampled: 07/07/09 15:00**				**RL3**
2,6-Dinitrotoluene	EPA 8270C	ND	-----	11.8	mg/kg dry	4x	9070380	07/13/09 18:00	07/15/09 00:53	
Bis(2-ethylhexyl)phthalate	"	ND	-----	47.0	"	"	"	"	"	
Fluoranthene	"	ND	-----	7.76	"	"	"	"	"	
Fluorene	"	ND	-----	7.76	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	7.76	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	23.5	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	23.5	"	"	"	"	"	
Hexachloroethane	"	ND	-----	23.5	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	7.76	"	"	"	"	"	
Isophorone	"	ND	-----	7.76	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	7.76	"	"	"	"	"	
2-Methylphenol	"	ND	-----	7.76	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	7.76	"	"	"	"	"	
Naphthalene	"	ND	-----	7.76	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	7.76	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	23.5	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	7.76	"	"	"	"	"	
Nitrobenzene	"	ND	-----	7.76	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	7.76	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	23.5	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	7.76	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	7.76	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	23.5	"	"	"	"	"	
Phenanthrene	"	ND	-----	7.76	"	"	"	"	"	
Phenol	"	ND	-----	7.76	"	"	"	"	"	
Pyrene	"	ND	-----	7.76	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	23.5	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	7.76	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	7.76	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*121%*	*30 - 126 %*	"
	2-Fluorophenol	*103%*	*28 - 119 %*	"
	Nitrobenzene-d5	*109%*	*26 - 117 %*	"
	Phenol-d6	*93.3%*	*35 - 125 %*	"
	p-Terphenyl-d14	*97.6%*	*26 - 143 %*	"
	2,4,6-Tribromophenol	*68.1%*	*30 - 127 %*	"

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-03 (SP2-A)			**Soil**				**Sampled: 07/07/09 15:45**			
Acenaphthene	EPA 8270C	ND	-----	2.58	mg/kg dry	1x	9070380	07/13/09 18:00	07/14/09 22:00	
Acenaphthylene	"	ND	-----	2.58	"	"	"	"	"	
Anthracene	"	ND	-----	2.58	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	2.58	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	2.58	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	2.58	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	2.58	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	2.58	"	"	"	"	"	
Benzoic Acid	"	**11.1**	-----	7.81	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	7.81	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	2.58	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	2.58	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	2.58	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	15.6	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	2.58	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	2.58	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	2.58	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	2.58	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	2.58	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	2.58	"	"	"	"	"	
Chrysene	"	ND	-----	2.58	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	7.81	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	2.58	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	2.58	"	"	"	"	"	
Dibenzofuran	"	ND	-----	2.58	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	7.81	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	7.81	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	7.81	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	7.81	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	2.58	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	2.58	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	7.81	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	2.58	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	7.81	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	15.6	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	3.90	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-03 (SP2-A)		**Soil**				**Sampled: 07/07/09 15:45**				
2,6-Dinitrotoluene	EPA 8270C	ND	-----	3.90	mg/kg dry	1x	9070380	07/13/09 18:00	07/14/09 22:00	
Bis(2-ethylhexyl)phthalate	"	ND	-----	15.6	"	"	"	"	"	
Fluoranthene	"	ND	-----	2.58	"	"	"	"	"	
Fluorene	"	ND	-----	2.58	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	2.58	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	7.81	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	7.81	"	"	"	"	"	
Hexachloroethane	"	ND	-----	7.81	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	2.58	"	"	"	"	"	
Isophorone	"	ND	-----	2.58	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	2.58	"	"	"	"	"	
2-Methylphenol	"	ND	-----	2.58	"	"	"	"	"	
3-,4-Methylphenol	"	**14.0**	-----	2.58	"	"	"	"	"	
Naphthalene	"	ND	-----	2.58	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	2.58	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	7.81	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	2.58	"	"	"	"	"	
Nitrobenzene	"	ND	-----	2.58	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	2.58	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	7.81	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	2.58	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	2.58	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	7.81	"	"	"	"	"	
Phenanthrene	"	ND	-----	2.58	"	"	"	"	"	
Phenol	"	ND	-----	2.58	"	"	"	"	"	
Pyrene	"	ND	-----	2.58	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	7.81	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	2.58	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	2.58	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*43.3%*	*30 - 126 %*	"
	2-Fluorophenol	*62.3%*	*28 - 119 %*	"
	Nitrobenzene-d5	*51.4%*	*26 - 117 %*	"
	Phenol-d6	*69.4%*	*35 - 125 %*	"
	p-Terphenyl-d14	*63.4%*	*26 - 143 %*	"
	2,4,6-Tribromophenol	*54.0%*	*30 - 127 %*	"

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-08 (CB1-6)		**Soil**				**Sampled: 07/07/09 16:35**				**RL3**
Acenaphthene	EPA 8270C	ND	-----	1.58	mg/kg dry	4x	9070380	07/13/09 18:00	07/14/09 23:48	
Acenaphthylene	"	ND	-----	1.58	"	"	"	"	"	
Anthracene	"	ND	-----	1.58	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	1.58	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	1.58	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	1.58	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	1.58	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	1.58	"	"	"	"	"	
Benzoic Acid	"	ND	-----	4.78	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	4.78	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	1.58	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	1.58	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	1.58	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	9.55	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	1.58	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	1.58	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	1.58	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	1.58	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	1.58	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	1.58	"	"	"	"	"	
Chrysene	"	ND	-----	1.58	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.78	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	1.58	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	1.58	"	"	"	"	"	
Dibenzofuran	"	ND	-----	1.58	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.78	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.78	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.78	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	4.78	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	1.58	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	1.58	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	4.78	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	1.58	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	4.78	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	9.55	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	2.39	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-08 (CB1-6)		**Soil**				**Sampled: 07/07/09 16:35**				**RL3**
2,6-Dinitrotoluene	EPA 8270C	ND	-----	2.39	mg/kg dry	4x	9070380	07/13/09 18:00	07/14/09 23:48	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.55	"	"	"	"	"	
Fluoranthene	"	ND	-----	1.58	"	"	"	"	"	
Fluorene	"	ND	-----	1.58	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	1.58	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	4.78	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	4.78	"	"	"	"	"	
Hexachloroethane	"	ND	-----	4.78	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	1.58	"	"	"	"	"	
Isophorone	"	ND	-----	1.58	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	1.58	"	"	"	"	"	
2-Methylphenol	"	ND	-----	1.58	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	1.58	"	"	"	"	"	
Naphthalene	"	ND	-----	1.58	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	1.58	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	4.78	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	1.58	"	"	"	"	"	
Nitrobenzene	"	ND	-----	1.58	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	1.58	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	4.78	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	1.58	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	1.58	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	4.78	"	"	"	"	"	
Phenanthrene	"	ND	-----	1.58	"	"	"	"	"	
Phenol	"	ND	-----	1.58	"	"	"	"	"	
Pyrene	"	ND	-----	1.58	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.78	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	1.58	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	1.58	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*105%*	*30 - 126 %*	"
	2-Fluorophenol	*86.0%*	*28 - 119 %*	"
	Nitrobenzene-d5	*89.0%*	*26 - 117 %*	"
	Phenol-d6	*84.4%*	*35 - 125 %*	"
	p-Terphenyl-d14	*87.4%*	*26 - 143 %*	"
	2,4,6-Tribromophenol	*81.4%*	*30 - 127 %*	"

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-09 (CB1-5)		**Soil**				**Sampled: 07/07/09 16:50**				**RL3**
Acenaphthene	EPA 8270C	ND	-----	3.67	mg/kg dry	4x	9070380	07/13/09 18:00	07/15/09 00:10	
Acenaphthylene	"	ND	-----	3.67	"	"	"	"	"	
Anthracene	"	ND	-----	3.67	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	3.67	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	3.67	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	3.67	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	3.67	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	3.67	"	"	"	"	"	
Benzoic Acid	"	ND	-----	11.1	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	11.1	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	3.67	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	3.67	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	3.67	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	22.2	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	3.67	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	3.67	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	3.67	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	3.67	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	3.67	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	3.67	"	"	"	"	"	
Chrysene	"	ND	-----	3.67	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	11.1	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	3.67	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	3.67	"	"	"	"	"	
Dibenzofuran	"	ND	-----	3.67	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	11.1	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	11.1	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	11.1	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	11.1	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	3.67	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	3.67	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	11.1	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	3.67	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	11.1	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	22.2	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	5.56	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-09 (CB1-5)		**Soil**				**Sampled: 07/07/09 16:50**				**RL3**
2,6-Dinitrotoluene	EPA 8270C	ND	-----	5.56	mg/kg dry	4x	9070380	07/13/09 18:00	07/15/09 00:10	
Bis(2-ethylhexyl)phthalate	"	ND	-----	22.2	"	"	"	"	"	
Fluoranthene	"	ND	-----	3.67	"	"	"	"	"	
Fluorene	"	ND	-----	3.67	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	3.67	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	11.1	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	11.1	"	"	"	"	"	
Hexachloroethane	"	ND	-----	11.1	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	3.67	"	"	"	"	"	
Isophorone	"	ND	-----	3.67	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	3.67	"	"	"	"	"	
2-Methylphenol	"	ND	-----	3.67	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	3.67	"	"	"	"	"	
Naphthalene	"	ND	-----	3.67	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	3.67	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	11.1	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	3.67	"	"	"	"	"	
Nitrobenzene	"	ND	-----	3.67	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	3.67	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	11.1	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	3.67	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	3.67	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	11.1	"	"	"	"	"	
Phenanthrene	"	ND	-----	3.67	"	"	"	"	"	
Phenol	"	ND	-----	3.67	"	"	"	"	"	
Pyrene	"	ND	-----	3.67	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	11.1	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	3.67	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	3.67	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*111%*	*30 - 126 %*	"
	2-Fluorophenol	*94.8%*	*28 - 119 %*	"
	Nitrobenzene-d5	*102%*	*26 - 117 %*	"
	Phenol-d6	*91.0%*	*35 - 125 %*	"
	p-Terphenyl-d14	*96.7%*	*26 - 143 %*	"
	2,4,6-Tribromophenol	*88.1%*	*30 - 127 %*	"

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-10 (CB1-4)		**Soil**				**Sampled: 07/07/09 17:00**				**RL3**
Acenaphthene	EPA 8270C	ND	-----	6.03	mg/kg dry	10x	9070380	07/13/09 18:00	07/15/09 00:32	
Acenaphthylene	"	ND	-----	6.03	"	"	"	"	"	
Anthracene	"	ND	-----	6.03	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	6.03	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	6.03	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	6.03	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	6.03	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	6.03	"	"	"	"	"	
Benzoic Acid	"	ND	-----	18.3	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	18.3	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	6.03	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	6.03	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	6.03	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	36.5	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	6.03	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	6.03	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	6.03	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	6.03	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	6.03	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	6.03	"	"	"	"	"	
Chrysene	"	ND	-----	6.03	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	18.3	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	6.03	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	6.03	"	"	"	"	"	
Dibenzofuran	"	ND	-----	6.03	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	18.3	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	18.3	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	18.3	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	18.3	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	6.03	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	6.03	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	18.3	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	6.03	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	18.3	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	36.5	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	9.13	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-10 (CB1-4)			**Soil**			**Sampled: 07/07/09 17:00**				**RL3**
2,6-Dinitrotoluene	EPA 8270C	ND	-----	9.13	mg/kg dry	10x	9070380	07/13/09 18:00	07/15/09 00:32	
Bis(2-ethylhexyl)phthalate	"	ND	-----	36.5	"	"	"	"	"	
Fluoranthene	"	ND	-----	6.03	"	"	"	"	"	
Fluorene	"	ND	-----	6.03	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	6.03	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	18.3	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	18.3	"	"	"	"	"	
Hexachloroethane	"	ND	-----	18.3	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	6.03	"	"	"	"	"	
Isophorone	"	ND	-----	6.03	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	6.03	"	"	"	"	"	
2-Methylphenol	"	ND	-----	6.03	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	6.03	"	"	"	"	"	
Naphthalene	"	ND	-----	6.03	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	6.03	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	18.3	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	6.03	"	"	"	"	"	
Nitrobenzene	"	ND	-----	6.03	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	6.03	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	18.3	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	6.03	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	6.03	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	18.3	"	"	"	"	"	
Phenanthrene	"	ND	-----	6.03	"	"	"	"	"	
Phenol	"	ND	-----	6.03	"	"	"	"	"	
Pyrene	"	ND	-----	6.03	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	18.3	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	6.03	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	6.03	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*72.4%*	*30 - 126 %*	"	
	2-Fluorophenol	*81.5%*	*28 - 119 %*	"	
	Nitrobenzene-d5	*36.4%*	*26 - 117 %*	"	***Z3***
	Phenol-d6	*76.3%*	*35 - 125 %*	"	
	p-Terphenyl-d14	*89.1%*	*26 - 143 %*	"	
	2,4,6-Tribromophenol	*63.1%*	*30 - 127 %*	"	***Z3***

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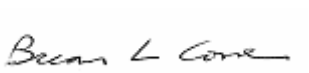

Brian Cone, Industrial Services Manager

Amended Report

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-11 (Equipment Blank)		**Water**				**Sampled: 07/08/09 15:00**				
Acenaphthene	EPA 8270C	ND	-----	4.85	ug/l	1x	9070349	07/13/09 11:10	07/15/09 22:55	
Acenaphthylene	"	ND	-----	4.85	"	"	"	"	"	
Anthracene	"	ND	-----	4.85	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.85	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.85	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.85	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.85	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.85	"	"	"	"	"	
Benzoic Acid	"	ND	-----	48.5	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	9.71	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.85	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.85	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.85	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	19.4	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.71	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.85	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.71	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.85	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.85	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.85	"	"	"	"	"	
Chrysene	"	ND	-----	4.85	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.85	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	4.85	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.85	"	"	"	"	"	
Dibenzofuran	"	ND	-----	4.85	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.85	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.85	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.85	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	4.85	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.85	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.85	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.71	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.85	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.71	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	24.3	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.85	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-11 (Equipment Blank)			**Water**			**Sampled: 07/08/09 15:00**				
2,6-Dinitrotoluene	EPA 8270C	ND	-----	4.85	ug/l	1x	9070349	07/13/09 11:10	07/15/09 22:55	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.71	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.85	"	"	"	"	"	
Fluorene	"	ND	-----	4.85	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.85	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.71	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.71	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.71	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	4.85	"	"	"	"	"	
Isophorone	"	ND	-----	4.85	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	4.85	"	"	"	"	"	
2-Methylphenol	"	ND	-----	9.71	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	4.85	"	"	"	"	"	
Naphthalene	"	ND	-----	4.85	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	4.85	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	9.71	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	9.71	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.85	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.85	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	24.3	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.71	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.85	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.71	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.85	"	"	"	"	"	
Phenol	"	ND	-----	4.85	"	"	"	"	"	A-01
Pyrene	"	ND	-----	4.85	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.85	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	4.85	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.85	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*64.0%*	*20 - 120 %*	"
	2-Fluorophenol	*86.5%*	*10 - 120 %*	"
	Nitrobenzene-d5	*88.8%*	*20 - 130 %*	"
	Phenol-d6	*87.8%*	*10 - 125 %*	"
	p-Terphenyl-d14	*74.1%*	*35 - 130 %*	"
	2,4,6-Tribromophenol	*84.3%*	*20 - 130 %*	"

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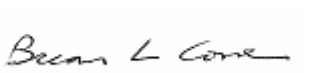

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)		**Soil**				**Sampled: 07/07/09 15:00**				**RL3**
Acenaphthene	EPA 8270m	ND	-----	0.157	mg/kg dry	4x	9070411	07/14/09 15:35	07/17/09 15:03	
Acenaphthylene	"	ND	-----	0.157	"	"	"	"	"	
Anthracene	"	ND	-----	0.157	"	"	"	"	"	
Benzo (a) anthracene	"	**0.578**	-----	0.157	"	"	"	"	"	
Benzo (a) pyrene	"	**0.819**	-----	0.157	"	"	"	"	"	
Benzo (b) fluoranthene	"	**0.820**	-----	0.157	"	"	"	"	"	
Benzo (ghi) perylene	"	**1.03**	-----	0.157	"	"	"	"	"	
Benzo (k) fluoranthene	"	**0.677**	-----	0.157	"	"	"	"	"	
Chrysene	"	**0.885**	-----	0.157	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	**0.278**	-----	0.157	"	"	"	"	"	
Fluoranthene	"	**0.903**	-----	0.157	"	"	"	"	"	
Fluorene	"	ND	-----	0.157	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	**0.721**	-----	0.157	"	"	"	"	"	
Naphthalene	"	ND	-----	0.157	"	"	"	"	"	
Phenanthrene	"	**0.476**	-----	0.157	"	"	"	"	"	
Pyrene	"	**0.809**	-----	0.157	"	"	"	"	"	
Surrogate(s): *Fluorene-d10*				*100%*		*24 - 125 %*				"
Pyrene-d10				*80.9%*		*41 - 141 %*				"
Benzo (a) pyrene-d12				*94.7%*		*38 - 143 %*				"
PSG0275-03 (SP2-A)		**Soil**				**Sampled: 07/07/09 15:45**				
Acenaphthene	EPA 8270m	ND	-----	0.104	mg/kg dry	1x	9070411	07/14/09 15:35	07/17/09 16:06	
Acenaphthylene	"	ND	-----	0.104	"	"	"	"	"	
Anthracene	"	ND	-----	0.104	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	0.104	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	0.104	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	0.104	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	0.104	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.104	"	"	"	"	"	
Chrysene	"	**0.165**	-----	0.104	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	0.104	"	"	"	"	"	
Fluoranthene	"	**0.246**	-----	0.104	"	"	"	"	"	
Fluorene	"	ND	-----	0.104	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.104	"	"	"	"	"	
Naphthalene	"	ND	-----	0.104	"	"	"	"	"	
Phenanthrene	"	**0.236**	-----	0.104	"	"	"	"	"	

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Brian L Cone

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project
Portland, OR 97210	Project Manager:	Tony Ordway
		Report Created: 08/24/09 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				
Pyrene	EPA 8270m	**0.179**	-----	0.104	mg/kg dry	1x	9070411	07/14/09 15:35	07/17/09 16:06	
Surrogate(s): Fluorene-d10				*58.6%*		*24 - 125 %*				"
Pyrene-d10				*42.4%*		*41 - 141 %*				"
Benzo (a) pyrene-d12				*45.6%*		*38 - 143 %*				"
PSG0275-08 (CB1-6)			**Soil**			**Sampled: 07/07/09 16:35**				**RL3**
Acenaphthene	EPA 8270m	ND	-----	0.0794	mg/kg dry	2x	9070411	07/14/09 15:35	07/17/09 18:43	
Acenaphthylene	"	ND	-----	0.0794	"	"	"	"	"	
Anthracene	"	ND	-----	0.0794	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	0.0794	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	0.0794	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	0.0794	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	0.0794	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.0794	"	"	"	"	"	
Chrysene	"	**0.149**	-----	0.0794	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	0.0794	"	"	"	"	"	
Fluoranthene	"	ND	-----	0.0794	"	"	"	"	"	
Fluorene	"	ND	-----	0.0794	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.0794	"	"	"	"	"	
Naphthalene	"	ND	-----	0.0794	"	"	"	"	"	
Phenanthrene	"	ND	-----	0.0794	"	"	"	"	"	
Pyrene	"	ND	-----	0.0794	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*104%*		*24 - 125 %*				"
Pyrene-d10				*86.0%*		*41 - 141 %*				"
Benzo (a) pyrene-d12				*95.5%*		*38 - 143 %*				"
PSG0275-09 (CB1-5)			**Soil**			**Sampled: 07/07/09 16:50**				**RL3**
Acenaphthene	EPA 8270m	ND	-----	0.0932	mg/kg dry	2x	9070411	07/14/09 15:35	07/17/09 19:14	
Acenaphthylene	"	ND	-----	0.0932	"	"	"	"	"	
Anthracene	"	ND	-----	0.233	"	"	"	"	"	**RL1**
Benzo (a) anthracene	"	ND	-----	0.186	"	"	"	"	"	**RL1**
Benzo (a) pyrene	"	**0.0990**	-----	0.0932	"	"	"	"	"	
Benzo (b) fluoranthene	"	**0.182**	-----	0.0932	"	"	"	"	"	
Benzo (ghi) perylene	"	**0.123**	-----	0.0932	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.0932	"	"	"	"	"	
Chrysene	"	**1.22**	-----	0.0932	"	"	"	"	"	

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Brian Cone, Industrial Services Manager

Amended Report

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-09 (CB1-5)		**Soil**			**Sampled: 07/07/09 16:50**					**RL3**
Dibenzo (a,h) anthracene	EPA 8270m	ND	-----	0.0932	mg/kg dry	2x	9070411	07/14/09 15:35	07/17/09 19:14	
Fluoranthene	"	**0.411**	-----	0.0932	"	"	"	"	"	
Fluorene	"	ND	-----	0.140	"	"	"	"	"	**RL1**
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.0932	"	"	"	"	"	
Naphthalene	"	ND	-----	0.0932	"	"	"	"	"	
Phenanthrene	"	ND	-----	0.279	"	"	"	"	"	**RL1**
Pyrene	"	**0.498**	-----	0.0932	"	"	"	"	"	
Surrogate(s): *Fluorene-d10*				*NR*		*24 - 125 %*			"	***Z9***
Pyrene-d10				*NR*		*41 - 141 %*			"	***Z9***
Benzo (a) pyrene-d12				*105%*		*38 - 143 %*			"	
PSG0275-10 (CB1-4)		**Soil**			**Sampled: 07/07/09 17:00**					**RL3**
Acenaphthene	EPA 8270m	ND	-----	0.122	mg/kg dry	2x	9070411	07/14/09 15:35	07/17/09 19:45	
Acenaphthylene	"	ND	-----	0.122	"	"	"	"	"	
Anthracene	"	ND	-----	0.122	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	0.122	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	0.122	"	"	"	"	"	
Benzo (b) fluoranthene	"	**0.137**	-----	0.122	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	0.122	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.122	"	"	"	"	"	
Chrysene	"	**0.402**	-----	0.122	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	0.122	"	"	"	"	"	
Fluoranthene	"	**0.393**	-----	0.122	"	"	"	"	"	
Fluorene	"	ND	-----	0.122	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.122	"	"	"	"	"	
Naphthalene	"	ND	-----	0.122	"	"	"	"	"	
Phenanthrene	"	**0.420**	-----	0.122	"	"	"	"	"	
Pyrene	"	**0.263**	-----	0.122	"	"	"	"	"	
Surrogate(s): *Fluorene-d10*				*97.2%*		*24 - 125 %*			"	
Pyrene-d10				*70.8%*		*41 - 141 %*			"	
Benzo (a) pyrene-d12				*128%*		*38 - 143 %*			"	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Phthalates per EPA 8270-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**			**Sampled: 07/07/09 15:00**				**RL7**
Dimethyl phthalate	EPA 8270m	ND	-----	1.57	mg/kg dry	20x	9070411	07/14/09 15:35	07/17/09 01:17	
Diethyl phthalate	"	ND	-----	1.57	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	1.57	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	1.57	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**20.6**	-----	1.57	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	6.29	"	80x	"	"	07/17/09 20:44	**RL1**
Surrogate(s): 2-Fluorobiphenyl				*NR*		*10 - 150 %*			*07/17/09 01:17*	***Z3***
p-Terphenyl-d14				*NR*		*10 - 150 %*			*"*	***Z3***
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				**RL7**
Dimethyl phthalate	EPA 8270m	ND	-----	1.04	mg/kg dry	5x	9070411	07/14/09 15:35	07/16/09 21:04	
Diethyl phthalate	"	ND	-----	1.04	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	1.04	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	1.04	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**3.56**	-----	1.04	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	1.04	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl				*56.9%*		*10 - 150 %*			*"*	
p-Terphenyl-d14				*65.3%*		*10 - 150 %*			*"*	
PSG0275-08 (CB1-6)			**Soil**			**Sampled: 07/07/09 16:35**				**RL7**
Dimethyl phthalate	EPA 8270m	ND	-----	0.159	mg/kg dry	2x	9070411	07/14/09 15:35	07/17/09 00:41	
Diethyl phthalate	"	ND	-----	0.159	"	"	"	"	"	
Di-n-butyl phthalate	"	**0.216**	-----	0.159	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	0.159	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**0.299**	-----	0.159	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	1.59	"	20x	"	"	07/17/09 20:07	**RL1**
Surrogate(s): 2-Fluorobiphenyl				*84.3%*		*10 - 150 %*			*07/17/09 00:41*	
p-Terphenyl-d14				*140%*		*10 - 150 %*			*"*	
PSG0275-09 (CB1-5)			**Soil**			**Sampled: 07/07/09 16:50**				**RL7**
Dimethyl phthalate	EPA 8270m	ND	-----	1.86	mg/kg dry	20x	9070411	07/14/09 15:35	07/16/09 19:52	
Diethyl phthalate	"	ND	-----	1.86	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	1.86	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	1.86	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**6.72**	-----	1.86	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	1.86	"	"	"	"	"	

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name: **Stormwater Assessment**	
6350 NW Front Ave	Project Number: Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager: Tony Ordway	08/24/09 15:41

Phthalates per EPA 8270-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-09 (CB1-5)		**Soil**				**Sampled: 07/07/09 16:50**				**RL7**
Surrogate(s): 2-Fluorobiphenyl				*NR*		*10 - 150 %*			*07/16/09 19:52*	***Z3***
p-Terphenyl-d14				*NR*		*10 - 150 %*			*"*	***Z3***
PSG0275-10 (CB1-4)		**Soil**				**Sampled: 07/07/09 17:00**				**RL7**
Dimethyl phthalate	EPA 8270m	ND	-----	6.12	mg/kg dry	50x	9070411	07/14/09 15:35	07/16/09 19:15	
Diethyl phthalate	"	ND	-----	6.12	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	6.12	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	6.12	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**19.0**	-----	6.12	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	6.12	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl				*NR*		*10 - 150 %*			*"*	***Z3***
p-Terphenyl-d14				*NR*		*10 - 150 %*			*"*	***Z3***

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Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Percent Dry Weight (Solids) per ASTM D2216-80

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**			**Sampled: 07/07/09 15:00**				
% Solids	NCA SOP	**84.5**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-02 (CB1-1)			**Soil**			**Sampled: 07/07/09 14:35**				
% Solids	NCA SOP	**84.6**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				
% Solids	NCA SOP	**12.8**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-04 (CB1-8)			**Soil**			**Sampled: 07/07/09 15:55**				
% Solids	NCA SOP	**34.0**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-05 (CB1-11)			**Soil**			**Sampled: 07/07/09 16:05**				
% Solids	NCA SOP	**19.8**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-06 (CB1-14)			**Soil**			**Sampled: 07/07/09 16:10**				
% Solids	NCA SOP	**50.1**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-07 (CB1-10)			**Soil**			**Sampled: 07/07/09 16:20**				
% Solids	NCA SOP	**30.7**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-08 (CB1-6)			**Soil**			**Sampled: 07/07/09 16:35**				
% Solids	NCA SOP	**83.6**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-09 (CB1-5)			**Soil**			**Sampled: 07/07/09 16:50**				
% Solids	NCA SOP	**71.8**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	
PSG0275-10 (CB1-4)			**Soil**			**Sampled: 07/07/09 17:00**				
% Solids	NCA SOP	**54.3**	-----	0.0100	% by Weight	1x	9070366	07/13/09 10:48	07/13/09 10:48	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organic Carbon, Total (TOC)

TestAmerica Connecticut

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSG0275-01 (CB4-1)			**Soil**			**Sampled: 07/07/09 15:00**				
Total Organic Carbon - Duplicates	9060	**81700**	*10.4*	100	mg/Kg	1x	29220	07/17/09 16:49	07/17/09 16:49	
PSG0275-02 (CB1-1)			**Soil**			**Sampled: 07/07/09 14:35**				
Total Organic Carbon - Duplicates	9060	**2680**	*10.4*	100	mg/Kg	1x	29220	07/17/09 17:03	07/17/09 17:03	
PSG0275-03 (SP2-A)			**Soil**			**Sampled: 07/07/09 15:45**				
Total Organic Carbon - Duplicates	9060	**232000**	*10.4*	100	mg/Kg	1x	29220	07/17/09 17:16	07/17/09 17:16	
PSG0275-04 (CB1-8)			**Soil**			**Sampled: 07/07/09 15:55**				
Total Organic Carbon - Duplicates	9060	**117000**	*10.4*	100	mg/Kg	1x	29220	07/17/09 17:30	07/17/09 17:30	
PSG0275-05 (CB1-11)			**Soil**			**Sampled: 07/07/09 16:05**				
Total Organic Carbon - Duplicates	9060	**226000**	*10.4*	100	mg/Kg	1x	29220	07/17/09 17:58	07/17/09 17:58	
PSG0275-06 (CB1-14)			**Soil**			**Sampled: 07/07/09 16:10**				
Total Organic Carbon - Duplicates	9060	**87000**	*10.4*	100	mg/Kg	1x	29220	07/17/09 18:12	07/17/09 18:12	
PSG0275-07 (CB1-10)			**Soil**			**Sampled: 07/07/09 16:20**				
Total Organic Carbon - Duplicates	9060	**228000**	*10.4*	100	mg/Kg	1x	29220	07/17/09 18:26	07/17/09 18:26	
PSG0275-08 (CB1-6)			**Soil**			**Sampled: 07/07/09 16:35**				
Total Organic Carbon - Duplicates	9060	**29800**	*10.4*	100	mg/Kg	1x	29220	07/17/09 18:39	07/17/09 18:39	
PSG0275-09 (CB1-5)			**Soil**			**Sampled: 07/07/09 16:50**				
Total Organic Carbon - Duplicates	9060	**55500**	*10.4*	100	mg/Kg	1x	29220	07/17/09 18:52	07/17/09 18:52	
PSG0275-10 (CB1-4)			**Soil**			**Sampled: 07/07/09 17:00**				
Total Organic Carbon - Duplicates	9060	**60700**	*10.4*	100	mg/Kg	1x	29220	07/17/09 19:41	07/17/09 19:41	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Gasoline Hydrocarbons per NW TPH-Gx Method - Laboratory Quality Control Results

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QC Batch: 9070300 **Soil Preparation Method: EPA 5035 Modified**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070300-BLK1)								**Extracted: 07/10/09 11:00**						
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	3.89	mg/kg wet	1x	--	--	--	--	--	--	07/10/09 13:14	
Surrogate(s): a,a,a-TFT (FID)		*Recovery: 118%*			*Limits: 50-150%*								*07/10/09 13:14*	
LCS (9070300-BS1)								**Extracted: 07/10/09 11:00**						
Gasoline Range Hydrocarbons	NW TPH-Gx	24.0	---	3.89	mg/kg wet	1x	--	24.3	98.8%	(70-130)	--	--	07/10/09 12:47	
Surrogate(s): a,a,a-TFT (FID)		*Recovery: 127%*			*Limits: 50-150%*								*07/10/09 12:47*	
Duplicate (9070300-DUP1)					**QC Source: PSG0266-01**			**Extracted: 07/10/09 11:00**						Q1
Gasoline Range Hydrocarbons	NW TPH-Gx	8.97	---	6.02	mg/kg dry	1x	9.15	--	--	--	1.97%	(40)	07/10/09 15:03	
Surrogate(s): a,a,a-TFT (FID)		*Recovery: 102%*			*Limits: 50-150%*								*07/10/09 15:03*	
Duplicate (9070300-DUP2)					**QC Source: PSG0275-01**			**Extracted: 07/10/09 11:00**						
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	4.67	mg/kg dry	1x	ND	--	--	--	27.9%	(40)	07/10/09 15:58	
Surrogate(s): a,a,a-TFT (FID)		*Recovery: 101%*			*Limits: 50-150%*								*07/10/09 15:58*	
Matrix Spike (9070300-MS1)					**QC Source: PSG0029-01**			**Extracted: 07/10/09 11:00**						
Gasoline Range Hydrocarbons	NW TPH-Gx	22.8	---	3.86	mg/kg dry	1x	ND	24.1	94.5%	(65-130)	--	--	07/10/09 14:35	
Surrogate(s): a,a,a-TFT (FID)		*Recovery: 120%*			*Limits: 50-150%*								*07/10/09 14:35*	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

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QC Batch: 9070351 **Water Preparation Method: EPA 3510 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070351-BLK1)								**Extracted: 07/13/09 10:40**						
Diesel Range Organics	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	07/13/09 12:04	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 67.0%*			*Limits: 50-150%*								*07/13/09 12:04*	
LCS (9070351-BS1)								**Extracted: 07/13/09 10:40**						
Diesel Range Organics	NWTPH-Dx	2.37	---	0.250	mg/l	1x	--	2.50	94.9%	(50-150)	--	--	07/13/09 12:20	
Heavy Oil Range Hydrocarbons	"	1.29	---	0.500	"	"	--	1.50	86.3%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 79.1%*			*Limits: 50-150%*								*07/13/09 12:20*	
LCS Dup (9070351-BSD1)								**Extracted: 07/13/09 10:40**						
Diesel Range Organics	NWTPH-Dx	2.35	---	0.250	mg/l	1x	--	2.50	94.0%	(50-150)	0.933%	(35)	07/13/09 12:36	
Heavy Oil Range Hydrocarbons	"	1.31	---	0.500	"	"	--	1.50	87.4%	"	1.25%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 86.1%*			*Limits: 50-150%*								*07/13/09 12:36*	

QC Batch: 9070392 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070392-BLK1)								**Extracted: 07/13/09 17:30**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	07/13/09 21:04	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 81.8%*			*Limits: 50-150%*								*07/13/09 21:04*	
LCS (9070392-BS1)								**Extracted: 07/13/09 17:30**						
Diesel Range Organics	NWTPH-Dx	122	---	12.5	mg/kg wet	1x	--	125	97.3%	(50-150)	--	--	07/13/09 21:21	
Heavy Oil Range Hydrocarbons	"	108	---	25.0	"	"	--	75.0	144%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 87.1%*			*Limits: 50-150%*								*07/13/09 21:21*	
Duplicate (9070392-DUP1)							**QC Source: PSG0152-01**							
Diesel Range Organics	NWTPH-Dx	986	---	18.6	mg/kg dry	1x	1820	--	--	--	59.5%	(40)	07/13/09 21:39	R2, Q9
Heavy Oil Range Hydrocarbons	"	117	---	37.1	"	"	ND	--	--	--		"	"	Q13
Surrogate(s): 1-Chlorooctadecane		*Recovery: 94.4%*			*Limits: 50-150%*								*07/13/09 21:39*	
Duplicate (9070392-DUP2)							**QC Source: PSG0152-02**							
Diesel Range Organics	NWTPH-Dx	4910	---	151	mg/kg dry	10x	5160	--	--	--	4.99%	(40)	07/14/09 08:47	Q9
Heavy Oil Range Hydrocarbons	"	ND	---	301	"	"	ND	--	--	--	NR	"	"	RL7
Surrogate(s): 1-Chlorooctadecane		*Recovery: 89.5%*			*Limits: 50-150%*								*07/14/09 08:47*	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070434 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070434-BLK1)								**Extracted: 07/14/09 16:40**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	07/15/09 03:35	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 102%*			*Limits: 50-150%*								*07/15/09 03:35*	
LCS (9070434-BS1)								**Extracted: 07/14/09 16:40**						
Diesel Range Organics	NWTPH-Dx	121	---	12.5	mg/kg wet	1x	--	125	97.2%	(50-150)	--	--	07/15/09 03:55	
Heavy Oil Range Hydrocarbons	"	65.6	---	25.0	"	"	--	75.0	87.4%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 105%*			*Limits: 50-150%*								*07/15/09 03:55*	
Duplicate (9070434-DUP1)							**QC Source: PSG0261-01**	**Extracted: 07/14/09 16:40**						
Diesel Range Organics	NWTPH-Dx	24.7	---	14.5	mg/kg dry	1x	80.9	--	--	--	107%	(40)	07/15/09 06:29	R3, Q6
Heavy Oil Range Hydrocarbons	"	208	---	29.1	"	"	660	--	--	--	104%	"	"	R3
Surrogate(s): 1-Chlorooctadecane		*Recovery: 85.9%*			*Limits: 50-150%*								*07/15/09 06:29*	
Duplicate (9070434-DUP2)							**QC Source: PSG0236-01**	**Extracted: 07/14/09 16:40**						
Diesel Range Organics	NWTPH-Dx	ND	---	13.4	mg/kg dry	1x	13.8	--	--	--	37.5%	(40)	07/15/09 04:13	
Heavy Oil Range Hydrocarbons	"	76.8	---	26.8	"	"	103	--	--	--	29.5%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 95.0%*			*Limits: 50-150%*								*07/15/09 04:13*	

QC Batch: 9070467 **Soil Preparation Method: EPA 3550 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070467-BLK1)								**Extracted: 07/14/09 21:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.5	mg/kg wet	1x	--	--	--	--	--	--	07/15/09 09:55	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 82.1%*			*Limits: 50-150%*								*07/15/09 09:55*	
LCS (9070467-BS1)								**Extracted: 07/14/09 21:00**						
Diesel Range Organics	NWTPH-Dx	125	---	12.5	mg/kg wet	1x	--	125	99.7%	(50-150)	--	--	07/14/09 23:17	
Heavy Oil Range Hydrocarbons	"	65.1	---	25.0	"	"	--	75.0	86.8%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 95.9%*			*Limits: 50-150%*								*07/14/09 23:17*	
Duplicate (9070467-DUP1)							**QC Source: PSG0167-10RE1**	**Extracted: 07/14/09 21:00**						
Diesel Range Organics	NWTPH-Dx	ND	---	12.4	mg/kg wet	1x	ND	--	--	--	NR	(40)	07/14/09 23:36	
Heavy Oil Range Hydrocarbons	"	ND	---	24.8	"	"	ND	--	--	--	31.2%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 80.1%*			*Limits: 50-150%*								*07/14/09 23:36*	

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

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QC Batch: 9070328 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070328-BLK1)									Extracted: 07/10/09 15:39					
Aluminum	EPA 200.7	ND	---	0.100	mg/l	1x	--	--	--	--	--	--	07/13/09 13:29	
LCS (9070328-BS1)									Extracted: 07/10/09 15:39					
Aluminum	EPA 200.7	5.33	---	0.100	mg/l	1x	--	5.00	107%	(85-115)	--	--	07/13/09 13:35	
Duplicate (9070328-DUP1)					QC Source: PSG0297-01				Extracted: 07/10/09 15:39					
Aluminum	EPA 200.7	ND	---	0.100	mg/l	1x	ND	--	--	--	NR	(20)	07/13/09 14:00	
Matrix Spike (9070328-MS1)					QC Source: PSG0297-01				Extracted: 07/10/09 15:39					
Aluminum	EPA 200.7	5.38	---	0.100	mg/l	1x	ND	5.00	108%	(75-125)	--	--	07/13/09 14:07	

QC Batch: 9070373 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070373-BLK1)									Extracted: 07/13/09 10:56					
Antimony	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	07/13/09 16:00	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
LCS (9070373-BS1)									Extracted: 07/13/09 10:56					
Antimony	EPA 200.8	0.0480	---	0.00100	mg/l	1x	--	0.0500	96.0%	(85-115)	--	--	07/13/09 16:05	
Arsenic	"	0.0981	---	0.00100	"	"	--	0.100	98.1%	"	--	--	"	
Cadmium	"	0.0950	---	0.000500	"	"	--	"	95.0%	"	--	--	"	
Chromium	"	0.104	---	0.00200	"	"	--	"	104%	"	--	--	"	
Copper	"	0.0979	---	0.00200	"	"	--	"	97.9%	"	--	--	"	
Lead	"	0.0972	---	0.00100	"	"	--	"	97.2%	"	--	--	"	
Manganese	"	0.107	---	0.00200	"	"	--	"	107%	"	--	--	"	
Nickel	"	0.0991	---	0.00100	"	"	--	"	99.1%	"	--	--	"	
Selenium	"	0.0975	---	0.000500	"	"	--	"	97.5%	"	--	--	"	
Silver	"	0.0491	---	0.00100	"	"	--	0.0500	98.2%	"	--	--	"	

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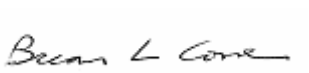

Brian Cone, Industrial Services Manager

Amended Report

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070373 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9070373-BS1)								**Extracted: 07/13/09 10:56**						
Zinc	EPA 200.8	0.0957	---	0.00500	mg/l	1x	--	0.100	95.7%	(85-115)	--	--	07/13/09 16:05	
Duplicate (9070373-DUP1)					**QC Source: PSG0270-02**			**Extracted: 07/13/09 10:56**						
Antimony	EPA 200.8	ND	---	0.00100	mg/l	1x	ND	--	--	--	NR	(20)	07/13/09 16:26	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.000500	"	"	ND	--	--	--	NR	"	"	
Chromium	"	ND	---	0.00200	"	"	ND	--	--	--		"	"	
Copper	"	0.00496	---	0.00200	"	"	0.00511	--	--	--	2.90%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Manganese	"	0.0112	---	0.00200	"	"	0.0112	--	--	--	0.268%	"	"	
Nickel	"	0.00195	---	0.00100	"	"	0.00188	--	--	--	3.75%	"	"	
Selenium	"	ND	---	0.000500	"	"	ND	--	--	--	61.8%	"	"	R4
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Zinc	"	ND	---	0.00500	"	"	ND	--	--	--	0.157%	"	"	
Matrix Spike (9070373-MS1)					**QC Source: PSG0270-03**			**Extracted: 07/13/09 10:56**						
Antimony	EPA 200.8	0.0513	---	0.00100	mg/l	1x	ND	0.0500	103%	(70-130)	--	--	07/13/09 16:37	
Arsenic	"	0.0993	---	0.00100	"	"	ND	0.100	99.3%	"	--	--	"	
Cadmium	"	0.0981	---	0.000500	"	"	ND	"	98.1%	"	--	--	"	
Chromium	"	0.102	---	0.00200	"	"	0.000420	"	101%	(75-125)	--	--	"	
Copper	"	0.0985	---	0.00200	"	"	0.00460	"	93.9%	"	--	--	"	
Lead	"	0.0900	---	0.00100	"	"	ND	"	90.0%	"	--	--	"	
Manganese	"	0.119	---	0.00200	"	"	0.0144	"	105%	(70-130)	--	--	"	
Nickel	"	0.0959	---	0.00100	"	"	0.00301	"	92.9%	"	--	--	"	
Selenium	"	0.0966	---	0.000500	"	"	0.000242	"	96.4%	"	--	--	"	
Silver	"	0.0479	---	0.00100	"	"	ND	0.0500	95.8%	"	--	--	"	
Zinc	"	0.0972	---	0.00500	"	"	0.00259	0.100	94.6%	"	--	--	"	
Matrix Spike (9070373-MS2)					**QC Source: PSG0324-01**			**Extracted: 07/13/09 10:56**						
Antimony	EPA 200.8	0.0503	---	0.00100	mg/l	1x	0.000494	0.0500	99.6%	(70-130)	--	--	07/13/09 17:34	
Arsenic	"	0.0984	---	0.00100	"	"	0.00210	0.100	96.3%	"	--	--	"	
Cadmium	"	0.0968	---	0.000500	"	"	0.0000910	"	96.7%	"	--	--	"	
Chromium	"	0.100	---	0.00200	"	"	0.00144	"	98.9%	(75-125)	--	--	"	
Copper	"	0.109	---	0.00200	"	"	0.0172	"	91.7%	"	--	--	"	
Lead	"	0.0930	---	0.00100	"	"	0.000257	"	92.8%	"	--	--	"	
Manganese	"	0.130	---	0.00200	"	"	0.0268	"	103%	(70-130)	--	--	"	
Nickel	"	0.0938	---	0.00100	"	"	0.00171	"	92.1%	"	--	--	"	
Selenium	"	0.0958	---	0.000500	"	"	0.000178	"	95.6%	"	--	--	"	
Silver	"	0.0483	---	0.00100	"	"	ND	0.0500	96.6%	"	--	--	"	

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Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070373 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9070373-MS2)				**QC Source: PSG0324-01**				**Extracted: 07/13/09 10:56**						
Zinc	EPA 200.8	0.121	---	0.00500	mg/l	1x	0.0279	0.100	93.2%	(70-130)	--	--	07/13/09 17:34	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070363 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070363-BLK1)									Extracted: 07/13/09 10:30					
Antimony	EPA 6020	ND	---	0.481	mg/kg wet	1x	--	--	--	--	--	--	07/14/09 02:15	
Arsenic	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	1.92	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.962	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.962	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/14/09 14:42	
Silver	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/14/09 02:15	
Zinc	"	ND	---	1.92	"	"	--	--	--	--	--	--	07/14/09 14:42	
LCS (9070363-BS1)									Extracted: 07/13/09 10:30					
Antimony	EPA 6020	23.2	---	0.490	mg/kg wet	1x	--	24.5	94.6%	(80-120)	--	--	07/14/09 02:22	
Arsenic	"	51.6	---	0.490	"	"	--	49.0	105%	"	--	--	"	
Cadmium	"	44.9	---	0.490	"	"	--	"	91.6%	"	--	--	"	
Chromium	"	47.4	---	0.490	"	"	--	"	96.7%	"	--	--	"	
Copper	"	54.0	---	1.96	"	"	--	"	110%	"	--	--	"	
Lead	"	48.3	---	0.490	"	"	--	"	98.6%	"	--	--	"	
Manganese	"	53.1	---	0.980	"	"	--	"	108%	"	--	--	"	
Nickel	"	53.2	---	0.980	"	"	--	"	109%	"	--	--	"	
Selenium	"	49.9	---	0.490	"	"	--	"	102%	"	--	--	07/14/09 14:50	
Silver	"	24.6	---	0.490	"	"	--	24.5	100%	"	--	--	07/14/09 02:22	
Zinc	"	47.4	---	1.96	"	"	--	49.0	96.7%	"	--	--	07/14/09 14:50	
Matrix Spike (9070363-MS1)					QC Source: PSG0275-01				Extracted: 07/13/09 10:30					
Antimony	EPA 6020	19.9	---	0.574	mg/kg dry	1x	2.80	28.7	59.6%	(75-125)	--	--	07/14/09 02:44	M8
Arsenic	"	82.4	---	0.574	"	"	30.1	57.4	91.1%	"	--	--	"	
Cadmium	"	59.9	---	0.574	"	"	2.85	"	99.3%	"	--	--	"	
Chromium	"	261	---	0.574	"	"	165	"	167%	"	--	--	"	M7
Copper	"	231	---	2.30	"	"	192	"	67.7%	"	--	--	"	MHA
Lead	"	785	---	5.74	"	10x	296	"	852%	"	--	--	07/14/09 15:11	MHA
Manganese	"	1030	---	11.5	"	"	775	"	440%	"	--	--	"	MHA
Nickel	"	141	---	1.15	"	1x	107	"	60.4%	"	--	--	07/14/09 02:44	M8
Selenium	"	62.7	---	5.74	"	10x	ND	"	109%	"	--	--	07/14/09 15:11	
Silver	"	27.3	---	0.574	"	1x	0.314	28.7	93.9%	"	--	--	07/14/09 02:44	
Zinc	"	2760	---	23.0	"	10x	2900	57.4	-236%	"	--	--	07/14/09 15:11	MHA

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Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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BEAVERTON, OR 97008-7132
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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 9070363 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9070363-MSD1)					**QC Source: PSG0275-01**				**Extracted: 07/13/09 10:30**					
Antimony	EPA 6020	20.6	---	0.592	mg/kg dry	1x	2.80	29.6	60.1%	(75-125)	3.24%	(40)	07/14/09 02:51	M8
Arsenic	"	84.5	---	0.592	"	"	30.1	59.2	92.0%	"	2.54%	"	"	
Cadmium	"	60.6	---	0.592	"	"	2.85	"	97.6%	"	1.12%	"	"	
Chromium	"	195	---	0.592	"	"	165	"	51.5%	"	28.7%	"	"	M8
Copper	"	257	---	2.37	"	"	192	"	111%	"	11.0%	"	"	
Lead	"	225	---	5.92	"	10x	296	"	-120%	"	111%	"	07/14/09 15:17	MHA, R2
Manganese	"	1040	---	11.8	"	"	775	"	444%	"	0.980%	"	"	MHA
Nickel	"	156	---	1.18	"	1x	107	"	83.6%	"	9.93%	"	07/14/09 02:51	
Selenium	"	66.9	---	5.92	"	10x	ND	"	113%	"	6.37%	"	07/14/09 15:17	
Silver	"	28.3	---	0.592	"	1x	0.314	29.6	94.7%	"	3.75%	"	07/14/09 02:51	
Zinc	"	3420	---	23.7	"	10x	2900	59.2	883%	"	21.3%	"	07/14/09 15:17	MHA

QC Batch: 9070386 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070386-BLK1)									**Extracted: 07/13/09 12:52**					
Aluminum	EPA 6010B	ND	---	4.81	mg/kg wet	1x	--	--	--	--	--	--	07/14/09 18:00	
LCS (9070386-BS1)									**Extracted: 07/13/09 12:52**					
Aluminum	EPA 6010B	236	---	4.90	mg/kg wet	1x	--	245	96.5%	(80-120)	--	--	07/14/09 18:06	
Matrix Spike (9070386-MS1)					**QC Source: PSG0275-02**				**Extracted: 07/13/09 12:52**					
Aluminum	EPA 6010B	4750	---	57.4	mg/kg dry	10x	4430	287	114%	(75-125)	--	--	07/14/09 18:44	
Matrix Spike Dup (9070386-MSD1)					**QC Source: PSG0275-02**				**Extracted: 07/13/09 12:52**					
Aluminum	EPA 6010B	4660	---	56.8	mg/kg dry	10x	4430	284	82.2%	(75-125)	2.00%	(40)	07/14/09 18:50	

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Amended Report

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Mercury per EPA Method 7470A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070371 **Water Preparation Method: EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070371-BLK1)								**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	07/13/09 17:12	
LCS (9070371-BS1)								**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	0.00492	---	0.000200	mg/l	1x	--	0.00500	98.4%	(85-115)	--	--	07/13/09 17:15	
LCS Dup (9070371-BSD1)								**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	0.00496	---	0.000200	mg/l	1x	--	0.00500	99.1%	(85-115)	0.719%	(20)	07/13/09 17:18	
Duplicate (9070371-DUP1)				**QC Source: PSG0275-11**				**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	07/13/09 17:22	
Matrix Spike (9070371-MS1)				**QC Source: PSG0275-11**				**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	0.00495	---	0.000200	mg/l	1x	0.0000861	0.00500	97.2%	(75-125)	--	--	07/13/09 17:24	
Matrix Spike Dup (9070371-MSD1)				**QC Source: PSG0275-11**				**Extracted: 07/13/09 10:54**						
Mercury	EPA 7470A	0.00484	---	0.000200	mg/l	1x	0.0000861	0.00500	95.0%	(75-125)	2.24%	(20)	07/13/09 17:27	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070395 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070395-BLK1)								**Extracted: 07/13/09 15:06**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	07/14/09 11:36	
LCS (9070395-BS1)								**Extracted: 07/13/09 15:06**						
Mercury	EPA 7471A	0.661	---	0.100	mg/kg wet	1x	--	0.625	106%	(80-120)	--	--	07/14/09 11:39	
LCS Dup (9070395-BSD1)								**Extracted: 07/13/09 15:06**						
Mercury	EPA 7471A	0.635	---	0.100	mg/kg wet	1x	--	0.625	102%	(80-120)	4.01%	(20)	07/14/09 11:43	
Duplicate (9070395-DUP1)					**QC Source: PSG0050-01**				**Extracted: 07/13/09 15:06**					
Mercury	EPA 7471A	ND	---	0.0863	mg/kg dry	1x	ND	--	--	--	94.2%	(40)	07/14/09 11:49	R4
Matrix Spike (9070395-MS1)					**QC Source: PSG0050-02**				**Extracted: 07/13/09 15:06**					
Mercury	EPA 7471A	1.11	---	0.134	mg/kg dry	1x	0.217	0.839	107%	(75-125)	--	--	07/14/09 11:54	
Matrix Spike Dup (9070395-MSD1)					**QC Source: PSG0050-02**				**Extracted: 07/13/09 15:06**					
Mercury	EPA 7471A	1.09	---	0.127	mg/kg dry	1x	0.217	0.794	110%	(75-125)	1.85%	(40)	07/14/09 11:58	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organochlorine Pesticides and PCBs per EPA Methods 8081A/8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070273 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070273-BLK1)							**Extracted: 07/09/09 16:35**							
Aldrin	8081A/8082	ND	---	0.00666	mg/kg wet	1x	--	--	--	--	--	--	07/22/09 15:05	
alpha-BHC	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	0.149	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
4,4´-DDD	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
4,4´-DDE	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
4,4´-DDT	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.00666	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	0.199	"	"	--	--	--	--	--	--	"	
Aroclor 1016	"	ND	---	0.0331	"	"	--	--	--	--	--	--	07/23/09 22:06	
Aroclor 1221	"	ND	---	0.0666	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.0331	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.0331	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.0331	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.0331	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.0331	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*2,4,5,6-Tetrachloro-m-xylene*	*Recovery: 77.3%*	*Limits: 36-140%*	*07/22/09 15:05*
	Decachlorobiphenyl	*84.4%*	*16-149%*	*07/23/09 22:06*

TestAmerica Portland

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organochlorine Pesticides and PCBs per EPA Methods 8081A/8082 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070273 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9070273-BS1)								**Extracted: 07/09/09 16:35**						
Aroclor 1016	8081A/8082	0.304	---	0.0332	mg/kg wet	1x	--	0.333	91.5%	(57-135)	--	--	07/23/09 22:28	
Aroclor 1260	"	0.326	---	0.0332	"	"	--	"	97.9%	(60-135)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 93.4%*			*Limits: 16-149%*								*07/23/09 22:28*	
LCS (9070273-BS2)								**Extracted: 07/09/09 16:35**						
Aldrin	8081A/8082	0.0265	---	0.00661	mg/kg wet	1x	--	0.0329	80.6%	(64-136)	--	--	07/22/09 15:57	MNR
gamma-BHC (Lindane)	"	0.0248	---	0.00661	"	"	--	"	75.4%	(62-140)	--	--	"	MNR
4,4´-DDT	"	0.0241	---	0.00661	"	"	--	"	73.2%	(65-130)	--	--	"	MHA
Dieldrin	"	0.0263	---	0.00661	"	"	--	"	80.0%	(70-135)	--	--	"	MNR
Endrin	"	0.0268	---	0.00661	"	"	--	"	81.6%	(65-135)	--	--	"	MNR
Heptachlor	"	0.0271	---	0.00661	"	"	--	"	82.4%	(42-139)	--	--	"	MNR
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 79.8%*			*Limits: 36-140%*								*07/22/09 15:57*	

Brian L Cone

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Amended Report

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070349 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070349-BLK1)								**Extracted: 07/13/09 11:10**						
Acenaphthene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	07/15/09 23:17	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3´-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

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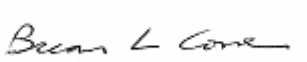

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070349 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070349-BLK1)							**Extracted: 07/13/09 11:10**							
Fluorene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	07/15/09 23:17	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 77.9%*	*Limits: 20-120%*	*07/15/09 23:17*
	2-Fluorophenol	*82.4%*	*10-120%*	*"*
	Nitrobenzene-d5	*86.1%*	*20-130%*	*"*
	Phenol-d6	*86.5%*	*10-125%*	*"*
	p-Terphenyl-d14	*97.1%*	*35-130%*	*"*
	2,4,6-Tribromophenol	*83.1%*	*20-130%*	*"*

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Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070349 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9070349-BS1)							**Extracted: 07/13/09 11:10**							
Acenaphthene	EPA 8270C	46.1	---	5.00	ug/l	1x	--	50.0	92.3%	(55-120)	--	--	07/15/09 20:04	
4-Chloro-3-methylphenol	"	50.9	---	5.00	"	"	--	"	102%	(35-135)	--	--	"	
2-Chlorophenol	"	45.5	---	5.00	"	"	--	"	90.9%	(30-130)	--	--	"	
1,4-Dichlorobenzene	"	24.0	---	5.00	"	"	--	"	48.0%	(10-125)	--	--	"	
2,4-Dinitrotoluene	"	49.8	---	5.00	"	"	--	"	99.5%	(50-130)	--	--	"	
4-Nitrophenol	"	57.6	---	25.0	"	"	--	"	115%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	44.6	---	10.0	"	"	--	"	89.2%	(40-130)	--	--	"	
Pentachlorophenol	"	53.1	---	10.0	"	"	--	"	106%	(20-150)	--	--	"	
Phenol	"	43.4	---	5.00	"	"	--	"	86.7%	(10-145)	--	--	"	B
Pyrene	"	48.0	---	5.00	"	"	--	"	96.0%	(55-125)	--	--	"	
1,2,4-Trichlorobenzene	"	36.8	---	5.00	"	"	--	"	73.5%	(30-120)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 74.7%*			*Limits: 20-120%*								*07/15/09 20:04*	
2-Fluorophenol		*68.0%*			*10-120%*								*"*	
Nitrobenzene-d5		*93.5%*			*20-130%*								*"*	
Phenol-d6		*73.9%*			*10-125%*								*"*	
p-Terphenyl-d14		*84.6%*			*35-130%*								*"*	
2,4,6-Tribromophenol		*99.5%*			*20-130%*								*"*	
Matrix Spike (9070349-MS1)							**QC Source: PSG0299-02**						**Extracted: 07/13/09 11:10**	
Acenaphthene	EPA 8270C	33.9	---	9.71	ug/l	2x	ND	48.5	69.8%	(20-150)	--	--	07/15/09 21:31	
4-Chloro-3-methylphenol	"	47.3	---	9.71	"	"	ND	"	97.4%	(10-150)	--	--	"	
2-Chlorophenol	"	39.7	---	9.71	"	"	ND	"	81.8%	"	--	--	"	
1,4-Dichlorobenzene	"	20.7	---	9.71	"	"	ND	"	42.7%	"	--	--	"	
2,4-Dinitrotoluene	"	41.4	---	9.71	"	"	ND	"	85.2%	"	--	--	"	
4-Nitrophenol	"	51.0	---	48.5	"	"	ND	"	105%	"	--	--	"	
N-Nitrosodi-n-propylamine	"	35.2	---	19.4	"	"	ND	"	72.4%	"	--	--	"	
Pentachlorophenol	"	42.3	---	19.4	"	"	ND	"	87.2%	"	--	--	"	
Phenol	"	39.7	---	9.71	"	"	ND	"	81.8%	"	--	--	"	B
Pyrene	"	35.4	---	9.71	"	"	ND	"	72.9%	(20-135)	--	--	"	
1,2,4-Trichlorobenzene	"	27.3	---	9.71	"	"	ND	"	56.3%	(10-150)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 68.6%*			*Limits: 20-120%*								*07/15/09 21:31*	
2-Fluorophenol		*63.4%*			*10-120%*								*"*	
Nitrobenzene-d5		*83.5%*			*20-130%*								*"*	
Phenol-d6		*70.9%*			*10-125%*								*"*	
p-Terphenyl-d14		*63.5%*			*35-130%*								*"*	
2,4,6-Tribromophenol		*87.0%*			*20-130%*								*"*	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070349 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9070349-MSD1)				**QC Source: PSG0299-02**					**Extracted: 07/13/09 11:10**					
Acenaphthene	EPA 8270C	35.5	---	9.71	ug/l	2x	ND	48.5	73.2%	(20-150)	4.81%	(50)	07/15/09 22:14	
4-Chloro-3-methylphenol	"	44.5	---	9.71	"	"	ND	"	91.7%	(10-150)	6.09%	"	"	
2-Chlorophenol	"	37.6	---	9.71	"	"	ND	"	77.4%	"	5.63%	"	"	
1,4-Dichlorobenzene	"	18.9	---	9.71	"	"	ND	"	39.0%	"	9.21%	"	"	
2,4-Dinitrotoluene	"	43.0	---	9.71	"	"	ND	"	88.6%	"	3.87%	"	"	
4-Nitrophenol	"	39.8	---	48.5	"	"	ND	"	82.0%	"	24.7%	"	"	
N-Nitrosodi-n-propylamine	"	37.7	---	19.4	"	"	ND	"	77.6%	"	6.83%	"	"	
Pentachlorophenol	"	37.4	---	19.4	"	"	ND	"	77.1%	"	12.3%	"	"	
Phenol	"	34.3	---	9.71	"	"	ND	"	70.8%	"	14.4%	"	"	B
Pyrene	"	38.3	---	9.71	"	"	ND	"	79.0%	(20-135)	7.95%	"	"	
1,2,4-Trichlorobenzene	"	28.1	---	9.71	"	"	ND	"	57.9%	(10-150)	2.80%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 66.4%*	*Limits: 20-120%*	*07/15/09 22:14*
	2-Fluorophenol	*60.0%*	*10-120%*	*"*
	Nitrobenzene-d5	*80.6%*	*20-130%*	*"*
	Phenol-d6	*61.5%*	*10-125%*	*"*
	p-Terphenyl-d14	*58.3%*	*35-130%*	*"*
	2,4,6-Tribromophenol	*86.1%*	*20-130%*	*"*

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070380 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070380-BLK1)							**Extracted: 07/13/09 18:00**							
Acenaphthene	EPA 8270C	ND	---	0.329	mg/kg wet	1x	--	--	--	--	--	--	07/14/09 16:32	
Acenaphthylene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
3,3´-Dichlorobenzidine	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	0.499	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	0.499	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	

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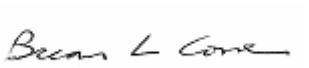

Brian Cone, Industrial Services Manager

Amended Report

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070380 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070380-BLK1)							**Extracted: 07/13/09 18:00**							
Fluorene	EPA 8270C	ND	---	0.329	mg/kg wet	1x	--	--	--	--	--	--	07/14/09 16:32	
Hexachlorobenzene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Methylphenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.998	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	0.329	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 96.4%*	*Limits: 30-126%*	*07/14/09 16:32*
	2-Fluorophenol	*88.1%*	*28-119%*	*"*
	Nitrobenzene-d5	*89.3%*	*26-117%*	*"*
	Phenol-d6	*90.3%*	*35-125%*	*"*
	p-Terphenyl-d14	*114%*	*26-143%*	*"*
	2,4,6-Tribromophenol	*79.5%*	*30-127%*	*"*

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Brian Cone, Industrial Services Manager

Amended Report

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070380 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9070380-BS1)								**Extracted: 07/13/09 18:00**						
Acenaphthene	EPA 8270C	1.71	---	0.329	mg/kg wet	1x	--	1.66	103%	(46-120)	--	--	07/14/09 16:53	
4-Chloro-3-methylphenol	"	1.97	---	0.329	"	"	--	"	119%	(36-138)	--	--	"	
2-Chlorophenol	"	1.78	---	0.329	"	"	--	"	107%	(18-137)	--	--	"	
1,4-Dichlorobenzene	"	1.56	---	0.997	"	"	--	"	93.7%	(7-135)	--	--	"	
2,4-Dinitrotoluene	"	1.70	---	0.499	"	"	--	"	102%	(49-125)	--	--	"	
4-Nitrophenol	"	1.42	---	0.997	"	"	--	"	85.4%	(40-148)	--	--	"	
N-Nitrosodi-n-propylamine	"	1.61	---	0.329	"	"	--	"	97.0%	(20-138)	--	--	"	
Pentachlorophenol	"	1.50	---	0.997	"	"	--	"	90.3%	(22-129)	--	--	"	
Phenol	"	1.74	---	0.329	"	"	--	"	105%	(37-122)	--	--	"	
Pyrene	"	1.95	---	0.329	"	"	--	"	117%	(26-143)	--	--	"	
1,2,4-Trichlorobenzene	"	1.67	---	0.997	"	"	--	"	100%	(25-129)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 100%*			*Limits: 30-126%*								*07/14/09 16:53*	
2-Fluorophenol		*90.3%*			*28-119%*								*"*	
Nitrobenzene-d5		*92.4%*			*26-117%*								*"*	
Phenol-d6		*92.3%*			*35-125%*								*"*	
p-Terphenyl-d14		*107%*			*26-143%*								*"*	
2,4,6-Tribromophenol		*100%*			*30-127%*								*"*	
Matrix Spike (9070380-MS1)							**QC Source: PSG0099-01**						**Extracted: 07/13/09 18:00**	
Acenaphthene	EPA 8270C	2.13	---	0.818	mg/kg dry	2x	ND	2.07	103%	(26-150)	--	--	07/14/09 17:15	
4-Chloro-3-methylphenol	"	2.49	---	0.818	"	"	ND	"	121%	"	--	--	"	
2-Chlorophenol	"	2.13	---	0.818	"	"	ND	"	103%	(8-150)	--	--	"	
1,4-Dichlorobenzene	"	1.71	---	2.48	"	"	ND	"	82.8%	(4-150)	--	--	"	
2,4-Dinitrotoluene	"	2.16	---	1.24	"	"	ND	"	105%	(32-150)	--	--	"	
4-Nitrophenol	"	2.30	---	2.48	"	"	ND	"	111%	(20-175)	--	--	"	
N-Nitrosodi-n-propylamine	"	1.91	---	0.818	"	"	ND	"	92.7%	(10-150)	--	--	"	
Pentachlorophenol	"	1.95	---	2.48	"	"	ND	"	94.2%	(12-150)	--	--	"	
Phenol	"	2.13	---	0.818	"	"	ND	"	103%	(17-150)	--	--	"	
Pyrene	"	2.69	---	0.818	"	"	ND	"	130%	(16-175)	--	--	"	
1,2,4-Trichlorobenzene	"	1.87	---	2.48	"	"	ND	"	90.6%	(18-150)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 83.6%*			*Limits: 30-126%*								*07/14/09 17:15*	
2-Fluorophenol		*77.4%*			*28-119%*								*"*	
Nitrobenzene-d5		*78.9%*			*26-117%*								*"*	
Phenol-d6		*79.7%*			*35-125%*								*"*	
p-Terphenyl-d14		*92.5%*			*26-143%*								*"*	
2,4,6-Tribromophenol		*82.8%*			*30-127%*								*"*	

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Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070380 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9070380-MSD1)					**QC Source: PSG0099-01**				**Extracted: 07/13/09 18:00**					
Acenaphthene	EPA 8270C	2.03	---	0.820	mg/kg dry	2x	ND	2.07	97.8%	(26-150)	4.99%	(60)	07/14/09 17:37	
4-Chloro-3-methylphenol	"	2.42	---	0.820	"	"	ND	"	117%	"	3.04%	"	"	
2-Chlorophenol	"	2.05	---	0.820	"	"	ND	"	98.9%	(8-150)	4.00%	"	"	
1,4-Dichlorobenzene	"	1.68	---	2.48	"	"	ND	"	81.3%	(4-150)	1.67%	"	"	
2,4-Dinitrotoluene	"	2.13	---	1.24	"	"	ND	"	103%	(32-150)	1.46%	"	"	
4-Nitrophenol	"	1.98	---	2.48	"	"	ND	"	95.6%	(20-175)	15.0%	"	"	
N-Nitrosodi-n-propylamine	"	1.94	---	0.820	"	"	ND	"	93.8%	(10-150)	1.43%	"	"	
Pentachlorophenol	"	1.86	---	2.48	"	"	ND	"	89.8%	(12-150)	4.59%	"	"	
Phenol	"	2.08	---	0.820	"	"	ND	"	101%	(17-150)	2.20%	"	"	
Pyrene	"	2.43	---	0.820	"	"	ND	"	117%	(16-175)	10.4%	"	"	
1,2,4-Trichlorobenzene	"	1.83	---	2.48	"	"	ND	"	88.6%	(18-150)	2.00%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 91.7%*	*Limits: 30-126%*	*07/14/09 17:37*
	2-Fluorophenol	*86.6%*	*28-119%*	*"*
	Nitrobenzene-d5	*87.8%*	*26-117%*	*"*
	Phenol-d6	*89.6%*	*35-125%*	*"*
	p-Terphenyl-d14	*106%*	*26-143%*	*"*
	2,4,6-Tribromophenol	*91.5%*	*30-127%*	*"*

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Brian Cone, Industrial Services Manager

Amended Report

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070411 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070411-BLK1)							**Extracted: 07/14/09 15:35**							
Acenaphthene	EPA 8270m	ND	---	0.0134	mg/kg wet	1x	--	--	--	--	--	--	07/16/09 22:12	
Acenaphthylene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0134	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 106%*			*Limits: 24-125%*								*07/16/09 22:12*	
Pyrene-d10		*94.1%*			*41-141%*								*"*	
Benzo (a) pyrene-d12		*97.9%*			*38-143%*								*"*	
LCS (9070411-BS1)							**Extracted: 07/14/09 15:35**							
Acenaphthene	EPA 8270m	0.153	---	0.0134	mg/kg wet	1x	--	0.167	91.8%	(33-139)	--	--	07/16/09 21:41	
Benzo (a) pyrene	"	0.149	---	0.0134	"	"	--	"	89.6%	(45-149)	--	--	"	
Pyrene	"	0.137	---	0.0134	"	"	--	"	82.4%	(39-138)	--	--	"	
Surrogate(s): Fluorene-d10		*Recovery: 91.6%*			*Limits: 24-125%*								*07/16/09 21:41*	
Pyrene-d10		*86.0%*			*41-141%*								*"*	
Benzo (a) pyrene-d12		*92.6%*			*38-143%*								*"*	
Matrix Spike (9070411-MS1)					**QC Source: PSG0375-02**		**Extracted: 07/14/09 15:35**							
Acenaphthene	EPA 8270m	0.175	---	0.0329	mg/kg dry	2x	0.00744	0.205	81.7%	(33-139)	--	--	07/17/09 14:01	
Benzo (a) pyrene	"	0.224	---	0.0329	"	"	0.153	"	34.3%	(45-149)	--	--	"	M8
Pyrene	"	0.191	---	0.0329	"	"	0.116	"	36.5%	(39-138)	--	--	"	M8
Surrogate(s): Fluorene-d10		*Recovery: 87.4%*			*Limits: 24-125%*								*07/17/09 14:01*	
Pyrene-d10		*81.2%*			*41-141%*								*"*	
Benzo (a) pyrene-d12		*85.2%*			*38-143%*								*"*	

TestAmerica Portland

Brian L Cone

Amended Report

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070411 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9070411-MSD1)					**QC Source: PSG0375-02**				**Extracted: 07/14/09 15:35**					
Acenaphthene	EPA 8270m	0.144	---	0.0329	mg/kg dry	2x	0.00744	0.204	66.6%	(33-139)	19.5%	(60)	07/17/09 14:32	
Benzo (a) pyrene	"	0.187	---	0.0329	"	"	0.153	"	16.6%	(45-149)	17.6%	"	"	M8
Pyrene	"	0.170	---	0.0329	"	"	0.116	"	26.3%	(39-138)	11.6%	"	"	M8
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*77.3%*		*Limits:*	*24-125%*							*07/17/09 14:32*	
	Pyrene-d10		*72.5%*			*41-141%*							*"*	
	Benzo (a) pyrene-d12		*77.6%*			*38-143%*							*"*	

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Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

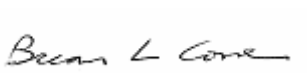
Phthalates per EPA 8270-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070411 **Soil Preparation Method: EPA 3550**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9070411-BLK1)									**Extracted: 07/14/09 15:35**					
Dimethyl phthalate	EPA 8270m	ND	---	0.0268	mg/kg wet	1x	--	--	--	--	--	--	07/15/09 14:11	
Diethyl phthalate	"	ND	---	0.0268	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	0.0268	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	0.0268	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	0.0268	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	0.0268	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 90.5%*			*Limits: 10-150%*								*07/15/09 14:11*	
p-Terphenyl-d14		*85.5%*			*10-150%*								*"*	
LCS (9070411-BS1)									**Extracted: 07/14/09 15:35**					
Dimethyl phthalate	EPA 8270m	0.112	---	0.0268	mg/kg wet	1x	--	0.133	83.8%	(20-150)	--	--	07/15/09 14:47	
Diethyl phthalate	"	0.117	---	0.0268	"	"	--	"	88.2%	"	--	--	"	
Di-n-butyl phthalate	"	0.127	---	0.0268	"	"	--	"	95.0%	"	--	--	"	
Butyl benzyl phthalate	"	0.123	---	0.0268	"	"	--	"	92.5%	"	--	--	"	
Bis(2-ethylhexyl)phthalate	"	0.125	---	0.0268	"	"	--	"	93.9%	"	--	--	"	
Di-n-octyl phthalate	"	0.117	---	0.0268	"	"	--	"	87.9%	"	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 81.4%*			*Limits: 10-150%*								*07/15/09 14:47*	
p-Terphenyl-d14		*73.7%*			*10-150%*								*"*	
Matrix Spike (9070411-MS1)					**QC Source: PSG0375-02**				**Extracted: 07/14/09 15:35**					
Dimethyl phthalate	EPA 8270m	0.138	---	0.0658	mg/kg dry	2x	ND	0.164	84.6%	(10-150)	--	--	07/16/09 18:03	
Diethyl phthalate	"	0.147	---	0.0658	"	"	ND	"	89.7%	"	--	--	"	
Di-n-butyl phthalate	"	0.158	---	0.0658	"	"	ND	"	96.4%	"	--	--	"	
Butyl benzyl phthalate	"	0.163	---	0.0658	"	"	ND	"	99.6%	"	--	--	"	
Bis(2-ethylhexyl)phthalate	"	0.167	---	0.0658	"	"	ND	"	102%	"	--	--	"	
Di-n-octyl phthalate	"	0.144	---	0.0658	"	"	ND	"	88.1%	"	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 77.0%*			*Limits: 10-150%*								*07/16/09 18:03*	
p-Terphenyl-d14		*70.6%*			*10-150%*								*"*	
Matrix Spike Dup (9070411-MSD1)					**QC Source: PSG0375-02**				**Extracted: 07/14/09 15:35**					
Dimethyl phthalate	EPA 8270m	0.123	---	0.0657	mg/kg dry	2x	ND	0.163	75.2%	(10-150)	12.0%	(50)	07/16/09 18:39	
Diethyl phthalate	"	0.132	---	0.0657	"	"	ND	"	80.7%	"	10.7%	"	"	
Di-n-butyl phthalate	"	0.144	---	0.0657	"	"	ND	"	88.4%	"	8.92%	"	"	
Butyl benzyl phthalate	"	0.151	---	0.0657	"	"	ND	"	92.6%	"	7.39%	"	"	
Bis(2-ethylhexyl)phthalate	"	0.157	---	0.0657	"	"	ND	"	95.8%	"	6.64%	"	"	
Di-n-octyl phthalate	"	0.136	---	0.0657	"	"	ND	"	83.4%	"	5.69%	"	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 60.0%*			*Limits: 10-150%*								*07/16/09 18:39*	
p-Terphenyl-d14		*64.8%*			*10-150%*								*"*	

TestAmerica Portland



Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Percent Dry Weight (Solids) per ASTM D2216-80 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9070366 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9070366-DUP1)				**QC Source: PSG0337-02**				**Extracted: 07/13/09 10:48**						
% Solids	NCA SOP	98.0	---	0.0100	% by Weight	1x	98.3	--	--	--	0.306%	(20)	07/13/09 10:48	

TestAmerica Portland

Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Organic Carbon, Total (TOC) - Laboratory Quality Control Results

TestAmerica Connecticut

QC Batch: 29220 **Soil Preparation Method: NA**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (220-29220-5)					**QC Source:**								**Extracted: 07/17/09 16:36**	
Total Organic Carbon - Duplicates	9060	4198	10.4	100	mg/Kg	1x	--	3530	119%	(28-172)	--	--	07/17/09 16:36	
Blank (220-29220-6)					**QC Source:**								**Extracted: 07/17/09 16:42**	
Total Organic Carbon - Duplicates	9060	ND	10.4	100	mg/Kg	1x	--	--	--	--	--	--	07/17/09 16:42	
Matrix Spike (95819S)					**QC Source: PSG0275-09**								**Extracted: 07/17/09 19:34**	
Total Organic Carbon - Duplicates	9060	169900	10.4	100	mg/Kg	1x	55500	118000	97%	(75-125)	--	--	07/17/09 19:34	
Duplicate (95819X)					**QC Source: PSG0275-09**								**Extracted: 07/17/09 19:20**	
Total Organic Carbon - Duplicates	9060	55230	10.4	100	mg/Kg	1x	55500	--	--	--	0%	(20)	07/17/09 19:20	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

Notes and Definitions

Report Specific Notes:

A-01	-	Analyte detected in Method Blank at greater than 1/2 MRL, but sample is ND.
A-01a	-	Detected hydrocarbons appear to be due to a light weight oil.
B	-	Analyte was detected in the associated Method Blank.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR	-	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
Q1	-	Does not match typical pattern
Q10	-	Hydrocarbon pattern most closely resembles a blend of mainly oil overlap as well as diesel.
Q13	-	Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
Q6	-	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
Q9	-	Hydrocarbon pattern most closely resembles weathered diesel.
R2	-	The RPD exceeded the acceptance limit.
R3	-	The RPD exceeded the acceptance limit due to sample matrix effects.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	-	Reporting limit raised due to sample matrix effects.
RL3	-	Reporting limit raised due to high concentrations of non-target analytes.
RL7	-	Sample required dilution due to high concentrations of target analyte.
Z3	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
Z9	-	Unable to calculate surrogate recovery due to matrix interference.
ZX	-	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

Amended Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

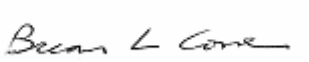
CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	Stormwater/Sediment Project	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	08/24/09 15:41

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



Amended Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425 420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509 924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503 906-9200 FAX 906-9210
2000 W. International Airport Rd Ste A10, Anchorage, AK 99502-1119 907 563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PSG0275

CLIENT: Certain Teed Roofing Products Corp

REPORT TO: Tony Ordway
ADDRESS: 6350 NW Front Ave
Portland, OR 97210

PHONE: 503-222-1307 FAX: 503-248-4271

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Sediment Project

PROJECT NUMBER:

SAMPLED BY: Lawrence Spangler

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses: ~~10 STD~~ 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 STD 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		TOC	metals *	Gx	Dx	8270 SV *	SIM PAH *	SIM Phth *	PCB/Pest * 8082/8081	Herb * 8151	grain size	Time * Transit Hour			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	CB4-1	07-07-09	1500	X	X	X	X	X	X	X	X	X	X	X			S	4	* sep. project 1st	
2	CB1-1	07-07-09	1435	X	X	X	X	X	X	X	X	X	X				S	4	** 3 hours	
3	SP2-A	07-07-09	1545	X	X	X	X	X	X	X	X	X	X				S	4		
4	CB1-8	07-07-09	1555	X	X	X	X	X	X	X	X	X	X				S	4		
5	CB1-11	07-07-09	1605	X	X	X	X	X	X	X	X	X	X				S	4		
6	CB1-14	07-07-09	1610	X	X	X	X	X	X	X	X	X	X				S	4		
7	CB1-10	07-07-09	1620	X	X	X	X	X	X	X	X	X	X				S	4		
8	~~5~~ CB1-6	07-07-09	1635	X	X	X	X	X	X	X	X	X	X				S	4		
9	CB1-5	07-07-09	1650	X	X	X	X	X	X	X	X	X	X				S	4		
10	CB1-4	07-07-09	1700	X	X	X	X	X	X	X	X	X	X				S	4		

RELEASED BY:	DATE:	RECEIVED BY: [signature]	DATE: 07-07-09
PRINT NAME: FIRM:	TIME:	PRINT NAME: Lawrence Spangler FIRM: TAP	TIME: 1700
RELEASED BY:	DATE: 07-09-09	RECEIVED BY:	DATE:
PRINT NAME: RAB FIRM: TAP	TIME: 1515	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 1.6 2.3

PAGE 1 OF 2

TAL-1000(0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

CHAIN OF CUSTODY REPORT

Work Order #: PSG0275

CLIENT: Certain Teed Roofing Products Corp

REPORT TO: Tony Ordway
ADDRESS: 6350 NW Front Ave Portland, OR 97210

PHONE: 503-222-1500 FAX: 503-278-9271

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Sediment Project

PROJECT NUMBER:

SAMPLED BY: Lawrence Spangler

TURNAROUND REQUEST in Business Days*
Organic & Inorganic Analyses: [X] 10 STD, 7, 5, 4, 3, 2, 1, <1
Petroleum Hydrocarbon Analyses: 5 STD., 4, 3, 2, 1, <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE:

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TOC	SV 8270	Metals										MATRIX (W, S, O)	# OF CONT	LOCATION/ COMMENTS	TA WO ID
1	Equipment Blank	07-07-09 1500	X	X	X										W	11		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

RELEASED BY: | DATE: | RECEIVED BY: [signature] | DATE: 07-07-09
PRINT NAME: | FIRM: | TIME: | PRINT NAME: Lawrence Spangler | FIRM: TDP | TIME: 1500

RELEASED BY: | DATE: 07-08-09 | RECEIVED BY: | DATE:
PRINT NAME: [signature] | FIRM: TDP | TIME: 1555 | PRINT NAME: | FIRM: | TIME:

ADDITIONAL REMARKS:

TEMP: 1.6°C 2.3°C

PAGE 2 OF 2

TAL-(0408)

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PSG0275 Date/Time Received: 7/8/09 1515

Client Name and Project: CertainTeed Stormwater

Time Zone:

☐EDT/EST ☐CDT/CST ☐MDT/MST ☒PDT/PST ☐AK ☐OTHER

Unpacking Checks:

Cooler #(s): 1 1

Temperatures: 1.6°C 2.3°C

Digi #1 ☐ Digi #2 ☐ IR Gun ☒ (☐Plastic ☒Glass)

Temperature out of Range:

__Not enough or No Ice

__Ice Melted

__W/in 4 Hrs of collection

__Other:_____

Initials: BJE

N/A	Yes	No	
☒	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☒	☐	☐	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
	☒	☐	3. Chain of Custody present? If no, document on NOD.
	☒	☐	4. Bottles received intact? If no, document on NOD.
	☒	☐	5. Sample is not multiphasic? If no, document on NOD.
	☒	☐	6. Proper Container and preservatives used? If no, document on NOD.
☐	☒	☐	7. pH of all samples checked and meet requirements? If no, document on NOD.
☒	☐	☐	8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☒	☐	☐	9. HF Dilution required?
	☒	☐	10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
	☒	☐	11. Did chain of custody agree with samples received? If no, document on NOD.
	☒	☐	12. Is the "Sampled by" section of the COC completed?
☒	☐	☐	13. Were VOA/Oil Syringe samples without headspace?
☒	☐	☐	14. Were VOA vials preserved? ☐HCl ☐Sodium Thiosulfate ☐Ascorbic Acid
	☐	☒	15. Did samples require preservation with sodium thiosulfate?
☒	☐	☐	16. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
☒	☐	☐	17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☒	☐	☐	18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
☒	☐	☐	19. Are analyses with short holding times received in hold?
	☒	☐	20. Was Standard Turn Around (TAT) requested?
	☒	☐	21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PSG10275

Login Checks:

Initials: BLE

N/A	Yes	No	
	☒	☐	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
☒	☐	☐	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.
	☒	☐	24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?
☐	☒	☐	25. Were special log in instructions read and followed?
	☒	☐	26. Were tests logged checked against the COC?
☒	☐	☐	27. Were rush notices printed and delivered?
☒	☐	☐	28. Were short hold notices printed and delivered?
☒	☒	☐	29. Were subcontract COCs printed?
☒	☐	☐	30. Was HF dilution logged?

Labeling and Storage Checks:

Initials: BLE

N/A	Yes	No	
☐	☒	☐	31. Were the subcontracted samples/containers put in Sx fridge?
☒	☐	☐	32. Were sample bottles and COC double checked for dissolved/filtered metals?
	☒	☐	33. Did the sample ID, Date, and Time from label match what was logged?
☒	☐	☐	34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge?
☒	☐	☐	35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
☒	☐	☐	36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

CertainTeed Stormwater/Sediment Project

Site	Sediment	Stormwater
SP1-1A		TSS/TOC/metals/Dx/Gx/ 8270/PAH/phalates/8082/ 8081/8151
SP1-1B		TSS/TOC/metals/Dx/Gx/ 8270/PAH/phalates/8082/ 8081/8151
CB1-3	TOC/metals/Gx/Dx/8270/ 8082/PAH/phalates/8081/ 8151/grain size	
CB1-5	TOC/metals/Gx/Dx/8270/ 8082/PAH/phalates/8081/ 8151/grain size	
CB1-7	TOC/metals/Gx/Dx/8270/ 8082/PAH/phalates/8081/ 8151/grain size	
CB1-13	TOC/metals/Gx/Dx/8270/ 8082/PAH/phalates/8081/ 8151/grain size	

CB4-1: No water, dug the manhole out with a shovel and put the dirt in a pile; sampled the pile of dirt. No water, pallet wood shavings, used gloves to sample five different areas.

CB1-1: All dirt with pieces of shingle; took sample from five different areas. Slight moisture under the surface; used gloves to sample.

SP2-A: Water with sediment on the bottom; used a dipper to sample five different areas.

CB1-8: Took sample from the catch bag; used gloves. Mainly wood shavings with dirt.

CB1-11: Took sample from the catch bag; used gloves. Mainly wood shavings with dirt.

CB1-14: Took sample from the catch bag; used gloves. Mainly wood shavings with dirt.

CB1-10: Took sample from the catch bag; used gloves. Mainly wood shavings with dirt.

SP1-B: Not enough sediment to collect sample.

CB1-6: Water on top, sediment on the bottom; used a scraper to collect sample from the inflow pipe.

CB1-5: All dirt, took sample from five different areas; used a scraper to collect sample.

CB1-4: Water on top, sediment on the bottom; sampled from five different areas; used a scraper to collect the sample.

[illegible] used on CB4-1 for Equipment Blank.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 1, 2009

Mr. Brian Cone
Test America, Inc.
9405 SW Nimbus Ave.
Beaverton, OR 97008

Subject: Project No.: PSG0275;
ARI Project No.: PG44

Dear Mr. Holmes,

The following pages provide the corrected grain size tables. Please call me to discuss any questions or comments you may have on the data or its presentation.

Best Regards,
Analytical Resources Incorporated

Guenna Smith
Geotechnical Laboratory Manager
206-695-6246
guennas@arilabs.com

Enclosures

cc: File PG44

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Test America	**ARI Project No.:** PG44
Client Project No.: PSG0275	

Case Narrative

1. Ten samples were received on July 10, 2009, and were in good condition. The samples were submitted for grain size distribution, according to ASTM D422. The samples were prepared according to ASTM D421.
2. An assumed specific gravity of 2.65 was used in the calculations.
3. A standard milkshake mixer type device was used to disperse the sample.
4. All samples contained woody or other organic matter, which may have broken down during the sieving process, affecting grain size analysis.
5. Due to the low percentage of fines, sample PSG0275-03 required curve fitting between the sand and silt fractions.
6. The data is provided in summary tables and plots.
7. There were no further anomalies in the samples or test method.

Approved by: Queena Sun Date: 9/1/09
Lead Technician

Test America, Inc.
PSG0275

Percent Finer (Passing) Than the Indicated Size

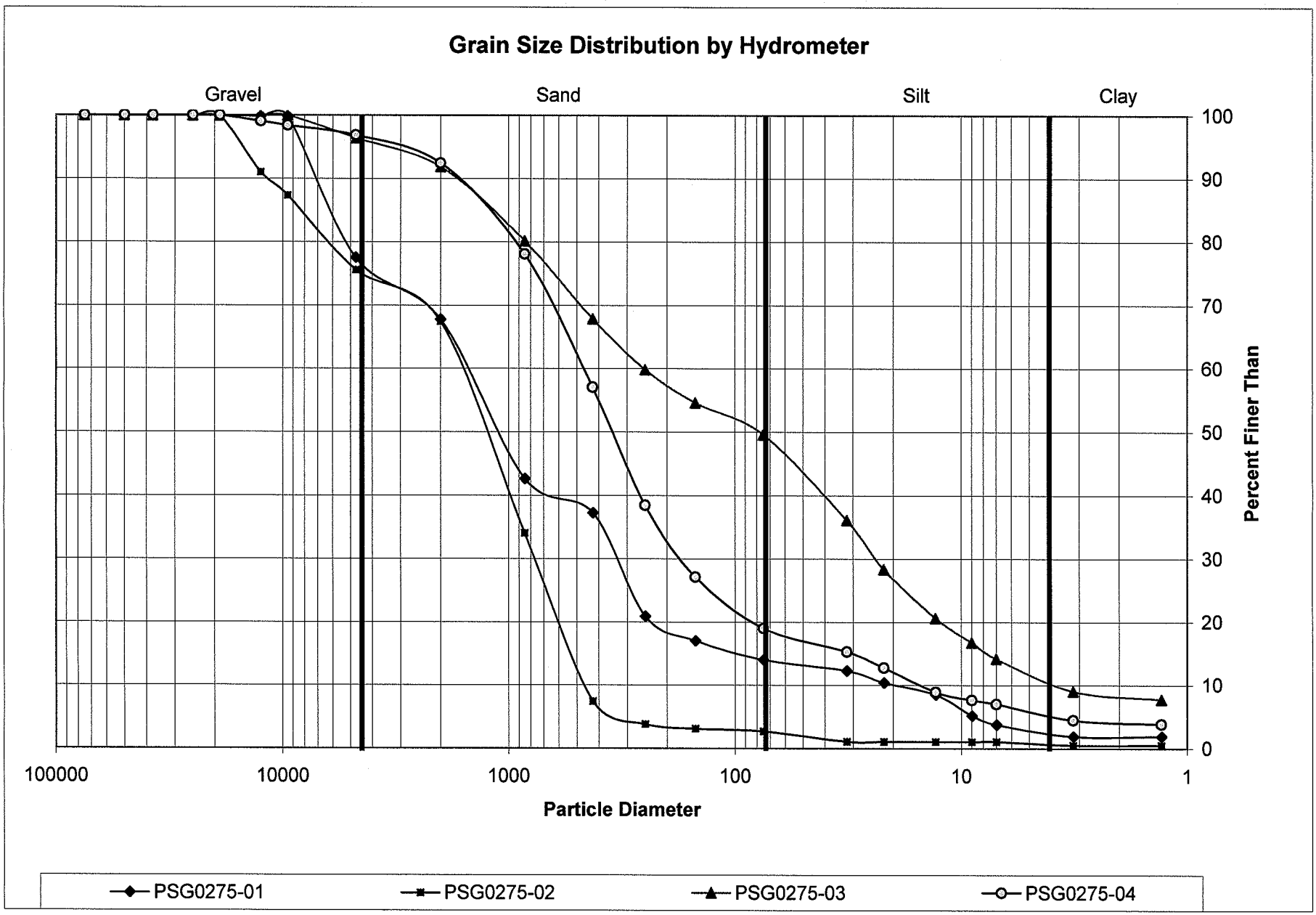
Sieve Size (microns)	3"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
PSG0275-01	100.0	100.0	100.0	100.0	100.0	99.8	99.8	77.5	67.8	42.6	37.2	20.9	17.0	14.0	12.3	10.4	8.5	5.2	3.8	1.9	1.9
PSG0275-02	100.0	100.0	100.0	100.0	100.0	91.0	87.3	75.6	67.5	34.1	7.4	3.9	3.1	2.7	1.1	1.1	1.1	1.1	1.1	0.6	0.6
PSG0275-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.4	91.8	80.1	67.9	59.8	54.6	49.6	36.1	28.4	20.6	16.8	14.2	9.0	7.7
PSG0275-04	100.0	100.0	100.0	100.0	100.0	99.1	98.4	96.8	92.4	78.1	57.1	38.4	27.1	19.0	15.3	12.7	8.9	7.6	7.0	4.5	3.8
PSG0275-05	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.1	93.4	75.8	53.1	39.5	31.3	24.2	12.4	9.3	3.9	3.1	3.1	2.3	2.3
PSG0275-06	100.0	100.0	100.0	100.0	100.0	98.6	96.7	93.3	89.7	76.8	56.7	41.1	31.3	22.8	16.3	14.0	10.5	6.4	5.2	2.9	2.3
PSG0275-07	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.9	90.1	77.7	59.2	47.3	39.0	31.9	27.9	13.3	9.3	6.7	6.7	4.0	4.0
PSG0275-08	100.0	100.0	100.0	100.0	98.3	93.4	82.5	59.7	37.3	21.5	11.0	6.8	4.7	3.2	3.0	1.5	1.1	1.1	0.8	0.6	0.6
PSG0275-09	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	98.1	87.0	76.5	67.5	60.8	51.5	30.1	23.1	16.1	11.9	8.4	4.2	2.8
PSG0275-10	100.0	100.0	100.0	100.0	100.0	98.5	97.8	96.1	94.6	85.7	76.1	65.8	56.9	44.1	20.2	16.3	9.1	6.5	4.6	2.6	2.6

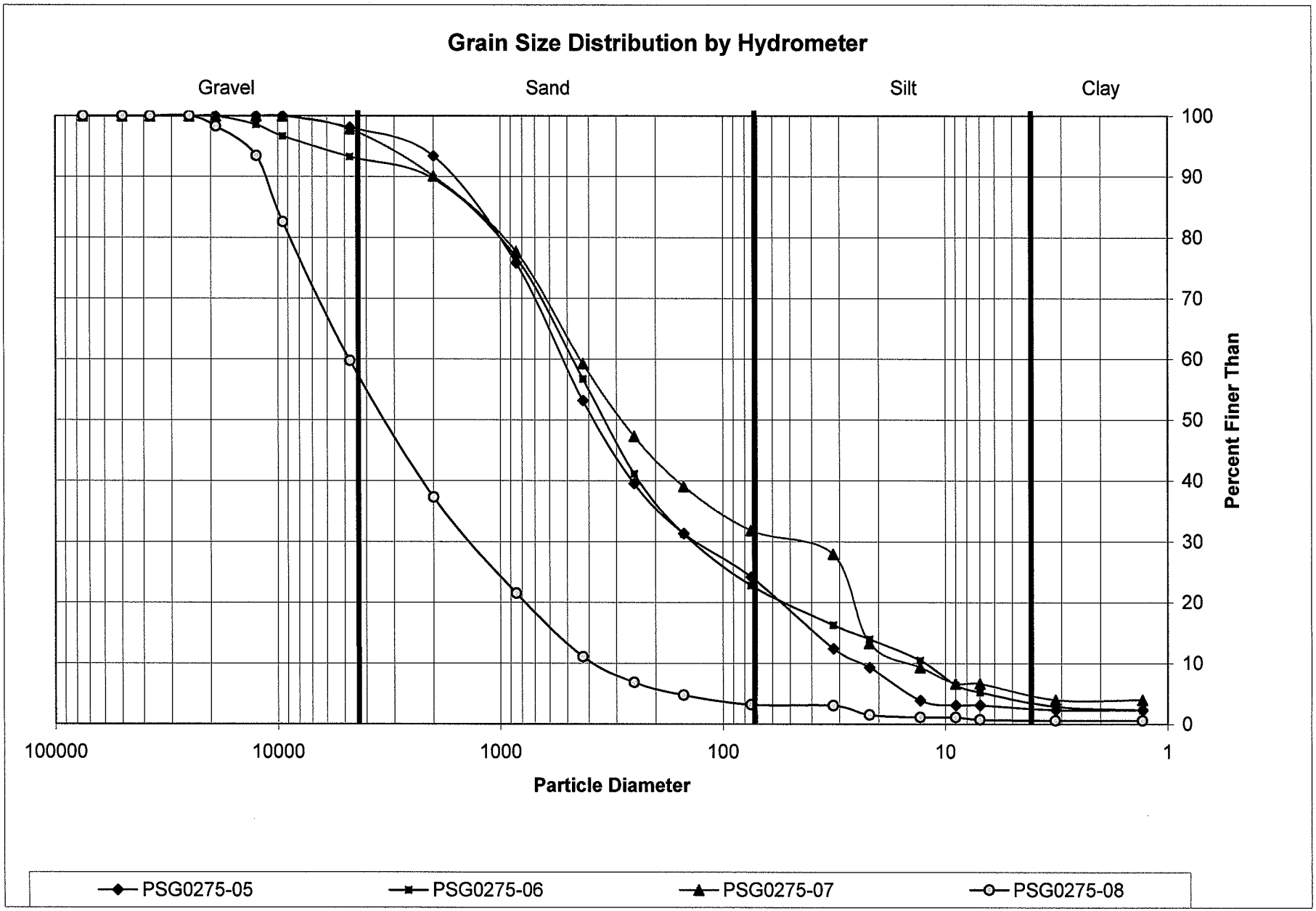
Testing performed according to ASTM D421/D422

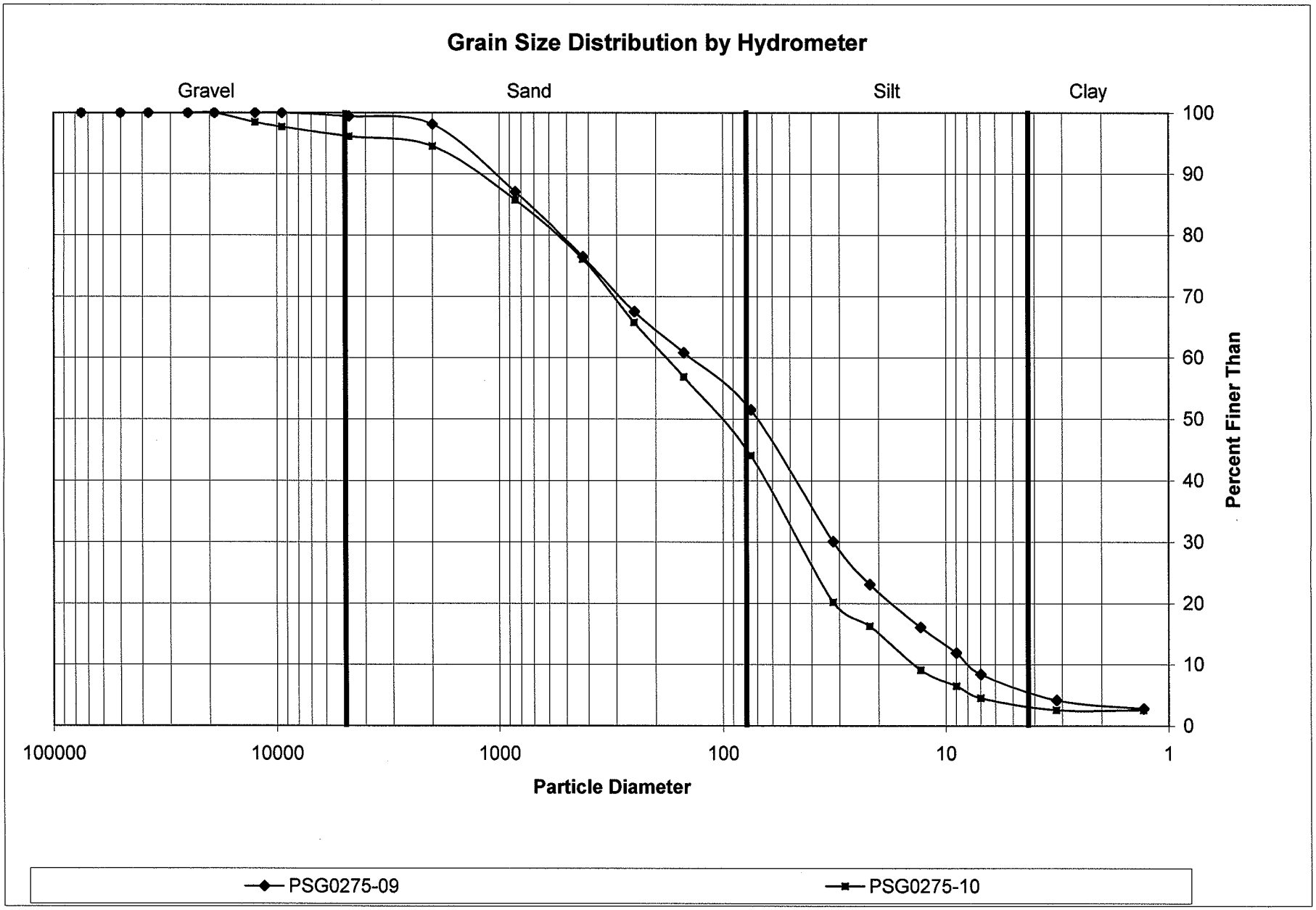
Test America, Inc.
PSG0275

Percent Retained in Each Size Fraction

Description	%Coarse Gravel				% Gravel			% Coarse Sand	% Medium Sand		% Fine Sand			% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay
Particle Size (microns)	3-2"	2-1 1/2"	1 1/2"-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8"-4750	4750-2000	2000-850	850-425	425-250	250-150	150-75	75-32	32-22	22-13	13-9	9-7	7-3.2	<3.2
PSG0275-01	0.0	0.0	0.0	0.0	0.2	0.0	22.3	9.8	25.2	5.3	16.4	3.9	3.0	1.7	1.9	1.9	3.3	1.4	1.9	1.9
PSG0275-02	0.0	0.0	0.0	0.0	9.0	3.7	11.7	8.2	33.4	26.6	3.6	0.7	0.4	1.6	0.0	0.0	0.0	0.0	0.6	0.6
PSG0275-03	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.6	11.7	12.3	8.0	5.2	5.0	13.5	7.7	7.7	3.9	2.6	5.2	9.0
PSG0275-04	0.0	0.0	0.0	0.0	0.9	0.7	1.6	4.4	14.3	21.0	18.6	11.3	8.1	3.7	2.5	3.8	1.3	0.6	2.5	4.5
PSG0275-05	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.7	17.5	22.7	13.6	8.2	7.2	11.8	3.1	5.4	0.8	0.0	0.8	2.3
PSG0275-06	0.0	0.0	0.0	0.0	1.4	1.9	3.4	3.6	13.0	20.1	15.6	9.8	8.5	6.5	2.3	3.5	4.1	1.2	2.3	2.9
PSG0275-07	0.0	0.0	0.0	0.0	0.0	0.0	2.1	7.8	12.4	18.5	12.0	8.2	7.2	3.9	14.6	4.0	2.7	0.0	2.7	4.0
PSG0275-08	0.0	0.0	0.0	1.7	4.9	10.9	22.8	22.5	15.8	10.5	4.2	2.1	1.5	0.2	1.5	0.4	0.0	0.4	0.2	0.6
PSG0275-09	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	11.1	10.6	8.9	6.7	9.3	21.4	7.0	7.0	4.2	3.5	4.2	4.2
PSG0275-10	0.0	0.0	0.0	0.0	1.5	0.8	1.6	1.6	8.8	9.6	10.3	8.9	12.8	23.8	3.9	7.2	2.6	2.0	2.0	2.6


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
100
10
1
Particle Diameter
PSG0275-01
PSG0275-02
PSG0275-03
PSG0275-04


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
100
10
1
Particle Diameter
PSG0275-05
PSG0275-06
PSG0275-07
PSG0275-08


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
100
10
1
Particle Diameter
PSG0275-09
PSG0275-10